

PROJECT ROADWAY MAP



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03	MISCELLANEOUS DETAILS
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11	PEDESTRIAN BRIDGE PLANS

CONNDOT STANDARD DRAWINGS	
TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANELIZING DEVICES

NAUGATUCK RIVER GREENWAY TOWN OF THOMASTON, CT TOWN OF WATERTOWN, CT



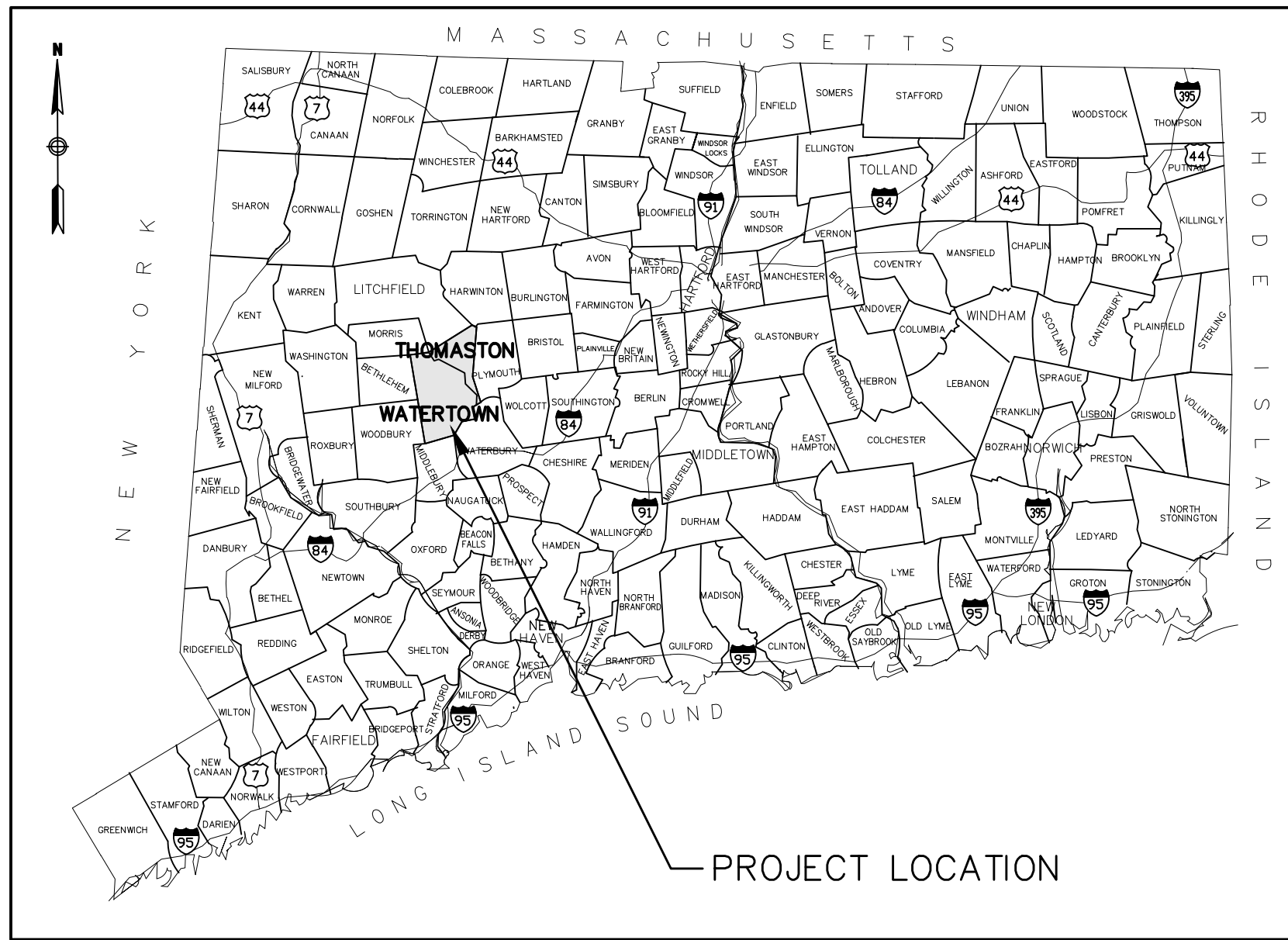
EDMOND V. MONE
FIRST SELECTMAN, THOMASTON

GLENN CLARK
SUPERINTENDENT OF HIGHWAYS, THOMASTON

ROBERT M. SCANNELL, JR.
TOWN MANAGER, WATERTOWN

ROY CAVANAUGH, P.E.
DIRECTOR OF PUBLIC WORKS, WATERTOWN

FEBRUARY, 2020

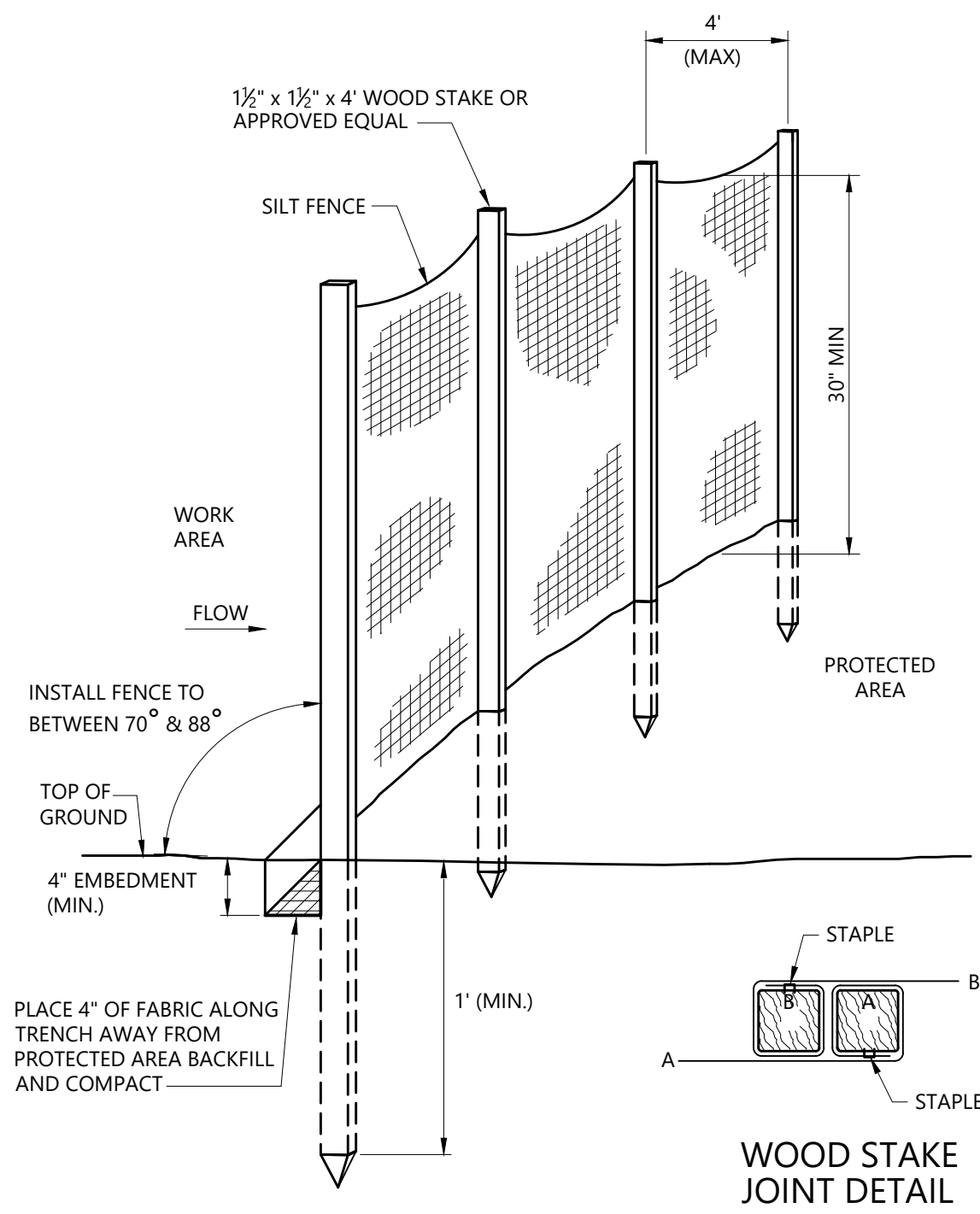


LOCATION MAP

2016 CONNECTICUT DEPARTMENT OF
TRANSPORTATION SPECIFICATIONS FORM 817
INCLUDING ALL SUPPLEMENTAL
SPECIFICATIONS THERETO GOVERN.

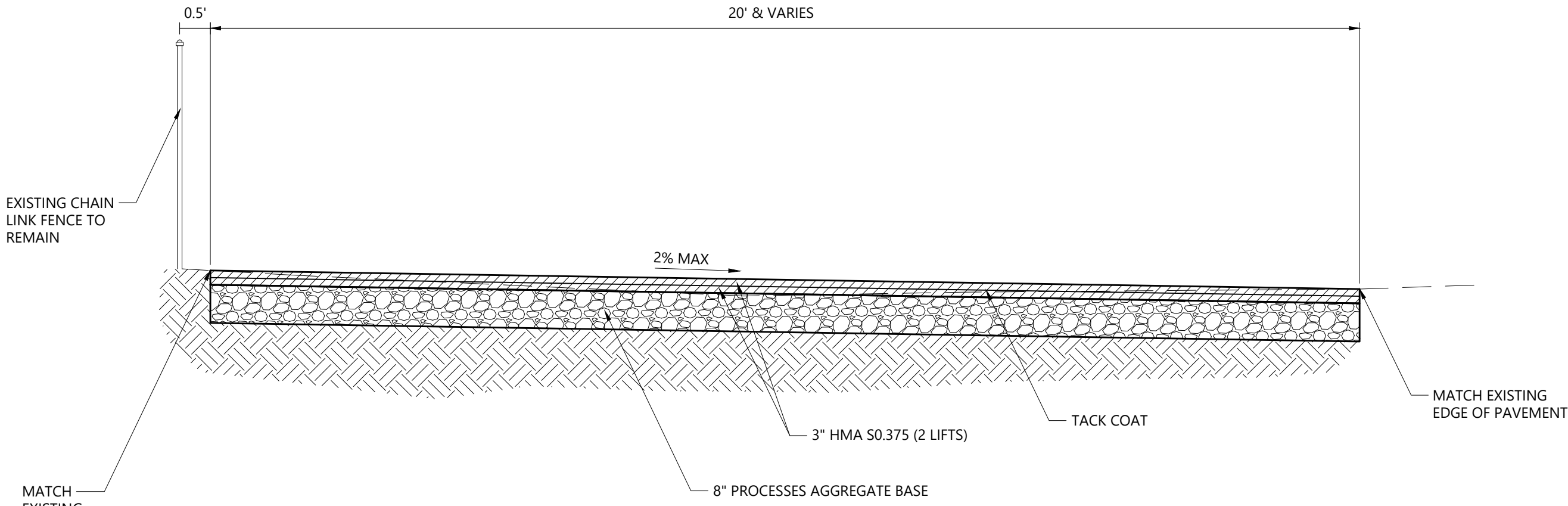
DESIGNED BY: VHB
100 GREAT MEADOW ROAD, SUITE 200
WETHERSFIELD, CT 06109



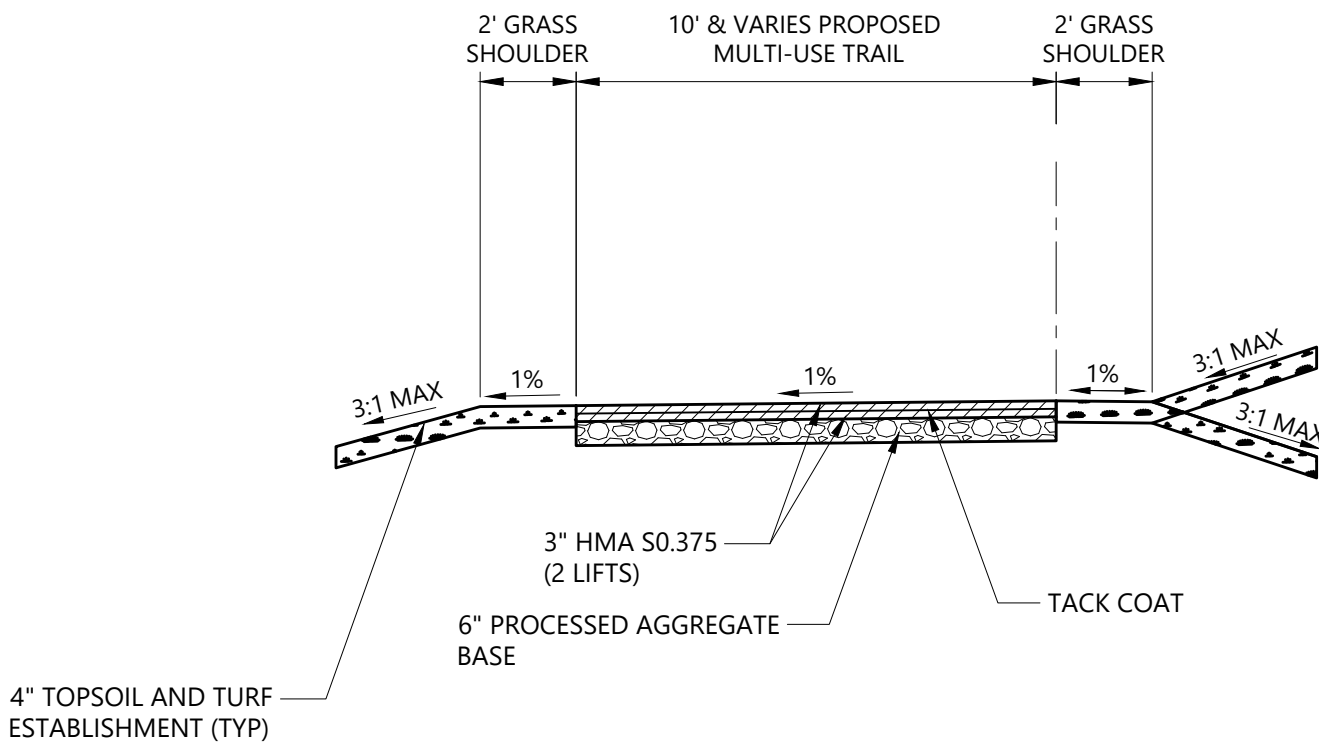


- DETAIL NOTES:
- THE CONTRACTOR SHALL MAINTAIN OR REPLACE THE SEDIMENTATION CONTROL SYSTEM THROUGHOUT THE CONSTRUCTION DURATION AND UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
 - THE CONTRACTOR SHALL INSPECT THE SYSTEM ONCE A WEEK AND WITHIN 12 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER.
 - THE CONTRACTOR SHALL CLEANOUT ACCUMULATED SEDIMENT WHEN ONE HALF OF THE ORIGINAL HEIGHT OF THE SYSTEM IS FILLED WITH SEDIMENT, OR AS ORDERED BY THE ENGINEER.
 - FOLLOWING CONSTRUCTION, THE CONTRACTOR SHALL CLEAN ALL DRAINAGE FACILITIES OF ANY ACCUMULATED SEDIMENT AND TRANSPORT SEDIMENT OFF SITE.
 - ALL COSTS ASSOCIATED WITH INSTALLING, MAINTAINING AND THE REMOVAL OF SILT FENCE SHALL BE INCLUDED IN THE CONTRACT UNIT COST PER LINEAR FOOT FOR "SEDIMENTATION CONTROL SYSTEM."

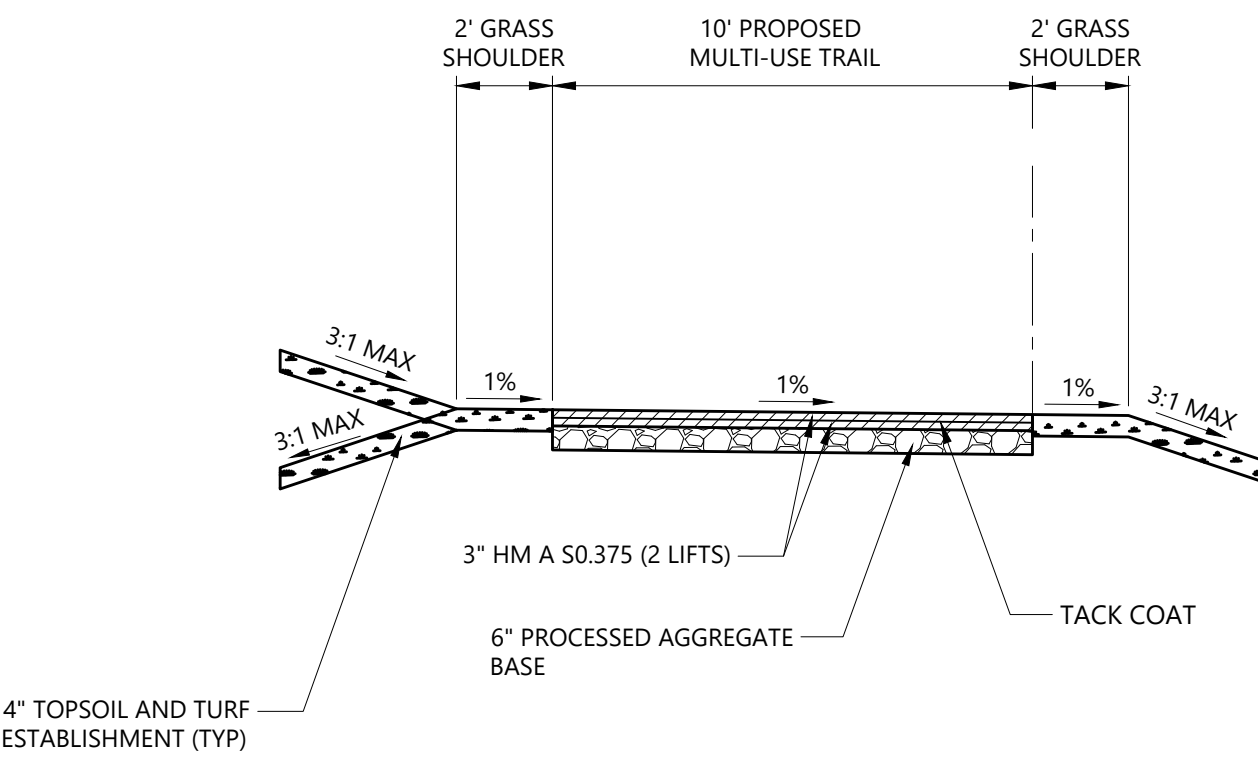
SEDIMENTATION CONTROL SYSTEM
N.T.S.



PARKING AREA DETAIL
N.T.S.



TRAIL SECTION DETAIL A
STA. 100+77.62 TO 104+50
STA. 109+00 TO 110+48.40



TRAIL SECTION DETAIL B
STA. 104+50 TO 109+00

REV.	DATE	DESCRIPTION REVISIONS	SHEET. NO.

DESIGNER: EAN
DRAFTER: JE
CHECKED BY: CF
APPROVED BY: SON



Engineers Scientists Planners Designers

NOT ISSUED FOR CONSTRUCTION DATE:FEBRUARY, 2020

PROJECT TITLE: NAUGATUCK RIVER GREENWAY THOMASTON-WATERTOWN DESIGN PROJECT
CADD. FILENAME: MDS-4222400.DWG

TOWN: THOMASTON, CONNECTICUT
DRAWING TITLE: MISCELLANEOUS DETAILS

PROJECT NO.: 42224.00
DRAWING NO.: MDS-01
SHEET NO.: 03 OF 17

SPECIFICATIONS

6' POLY VINYL FORMED CLASSIC BENCH WITH BACK.
FRAME IS SURFACE MOUNT DESIGN.

COATED WITH A 1/8" TO 1/4" THICK PLASTISOL ULTRAVIOLET STABILIZED VINYL COATING FUSED AND BAKED TO A 90% GLOSS.

SEAT HEIGHT IS 18" APPROXIMATELY. BACK HEIGHT IS 31" APPROXIMATELY.
TOTAL OVERALL DIMENSIONS ARE 72" X 27 1/2" APPROXIMATELY.

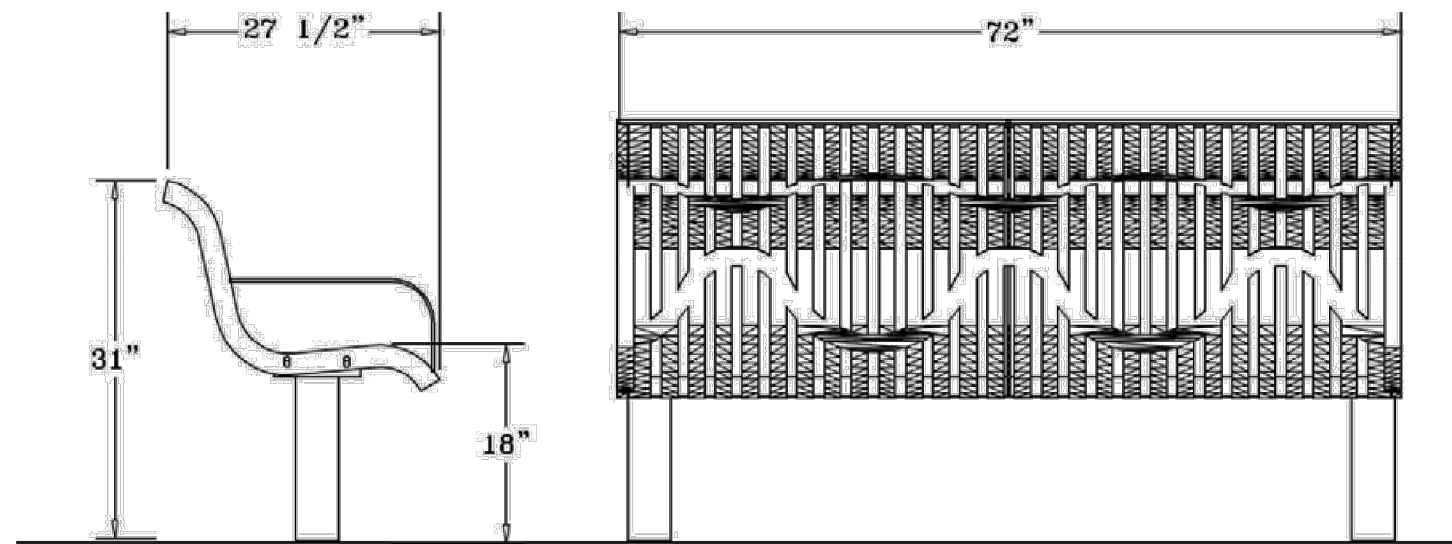
SEAT IS MADE FROM 11 GA STEEL.
ALL CENTER BRACES ARE MADE FROM 1 1/2" X 1/4" FLAT STEEL.

FRAME IS MADE OF 2 7/8" TUBING WELDED TO 1/4" X 6" ROUND STEEL PLATES.
POWDER COATED WITH POLYESTER ELECTROSTATIC PAINT.

ALL WINGLINE BENCHES CAN BE ORDERED WITH OR WITHOUT ARMS.

ALL HARDWARE IS NON-CORROSIVE.

WEIGHT FOR THE B6WBCLASSIC WINGLINESM IS 140 LBS.



ASSEMBLY PROCEDURES

STEP 1
MOUNT THE SEAT TO THE TWO 2 7/8" TUBING FRAMES BY MEANS OF FOUR 5/16" BOLTS, EIGHT FLAT WASHERS AND FOUR NUTS THROUGH THE SLOTTED HOLES IN THE SEAT END PLATES AND THE SLOTTED HOLES ON BOTH ENDS OF THE FRAME.

STEP 2
TIGHTEN ALL NUTS ON ALL BOLTS AND PLACE THE BOLT GUARDS ON ALL NUTS. **DO NOT OVER TIGHTEN THE NUTS AS THIS COULD CAUSE THE PLASTISOL COATING TO CRACK.**

STEP 3
CAREFULLY SET BENCH UPRIGHT AND MOUNT THE SURFACE MOUNT FRAMES TO THE SELECTED SURFACE. **SURFACE MOUNTING HARDWARE NOT INCLUDED.**

FOOTING DIAGRAM:

1 CAP. BOLT & WASHER
2 WASHER & LOCK NUT

PARTS IDENTIFICATION

(A) 6' WINGLINE CLASSIC SEAT
(B) BENCH FRAME

PARTS LIST

ITEM	PART#	DESCRIPTION	QTY.
A		6' WINGLINE CLASSIC SEAT	1
B		BENCH FRAME	2

HARDWARE IDENTIFICATION

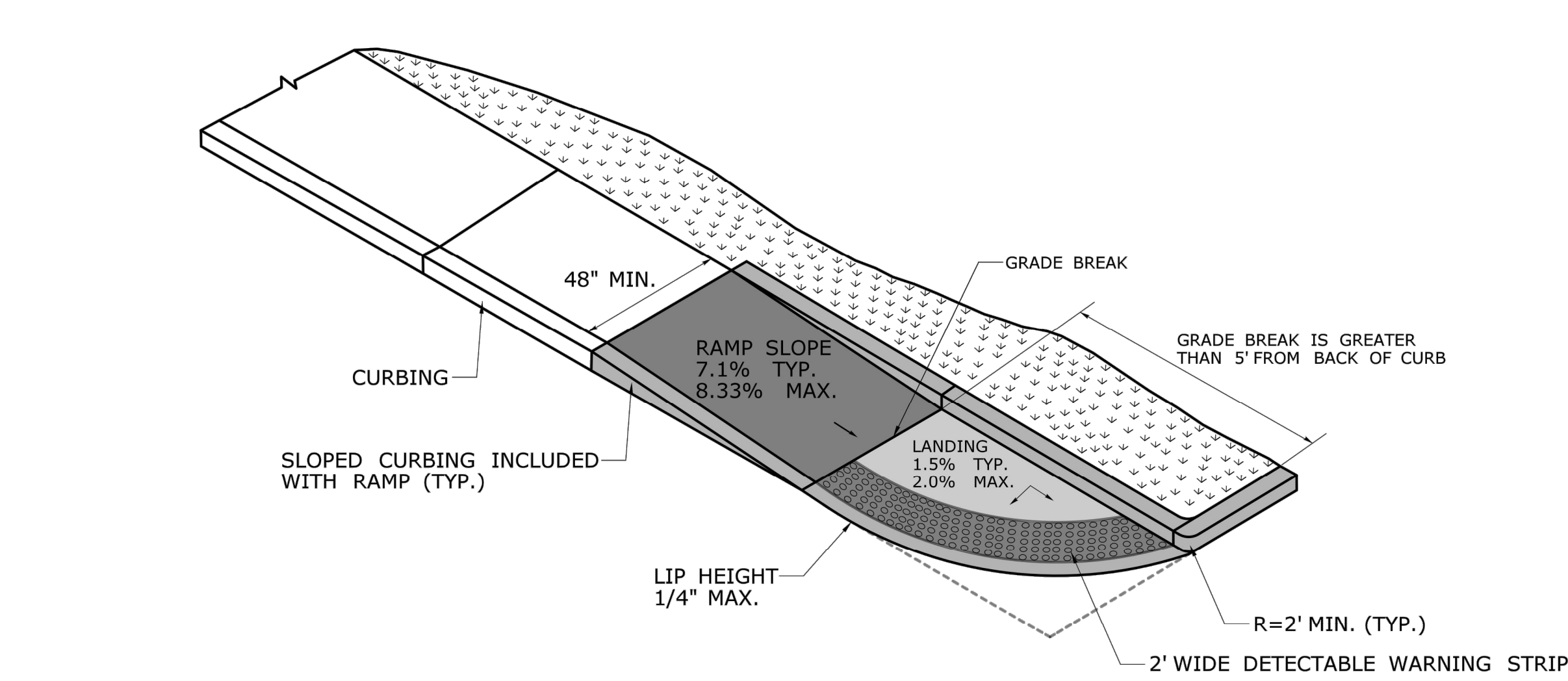
(HW1) 5/16" X 18 NYL LOCKNUTS	(HW2) 5/16" X 18 GAUGE CAP BOLTS
(HW3) 5/16" FLAT WASHERS	(HW4) BOLT GUARDS

ASSEMBLY TOOLS REQUIRED

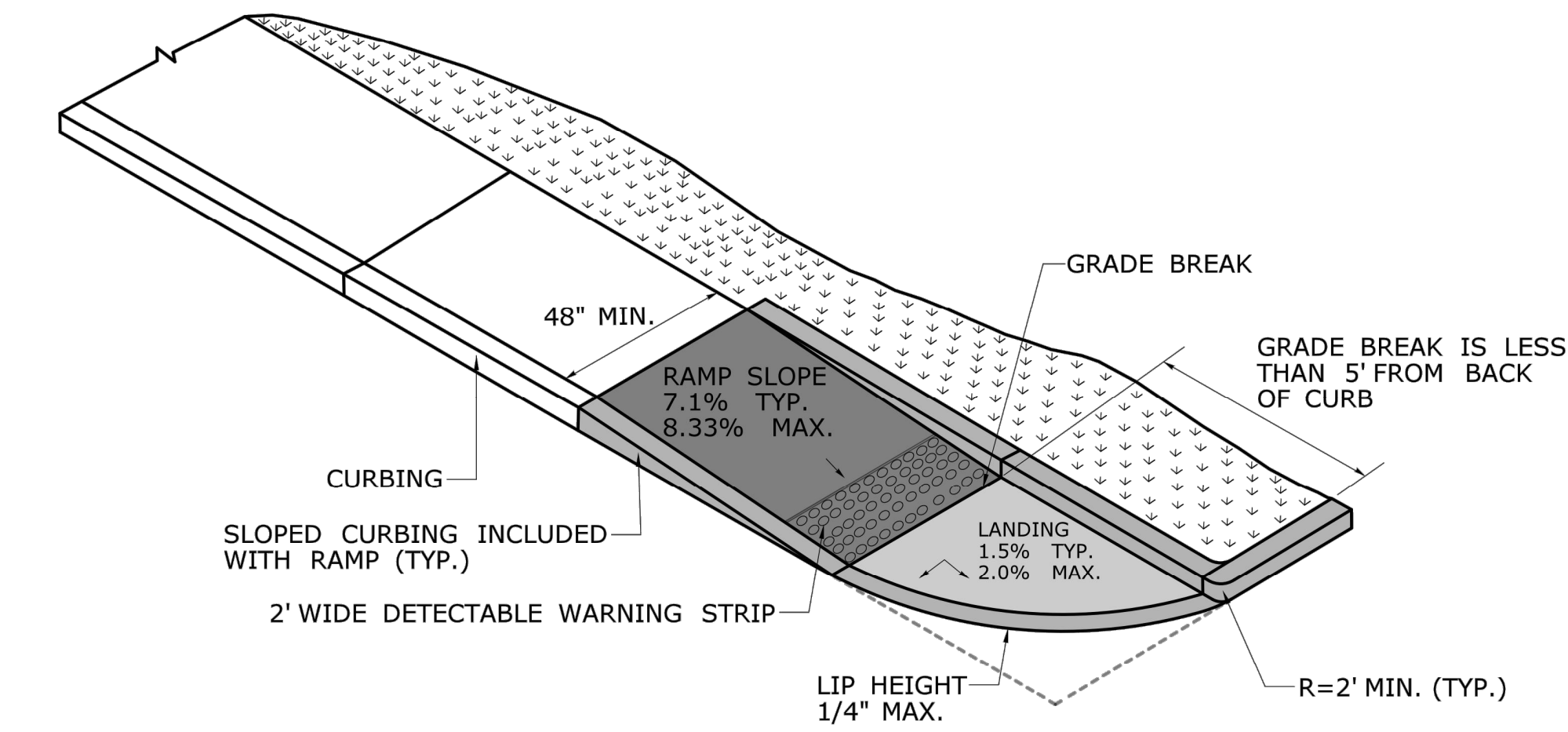
2- 3/8" WRINGERS

6' CLASSIC WINGLINE STYLE BENCH
N.T.S.

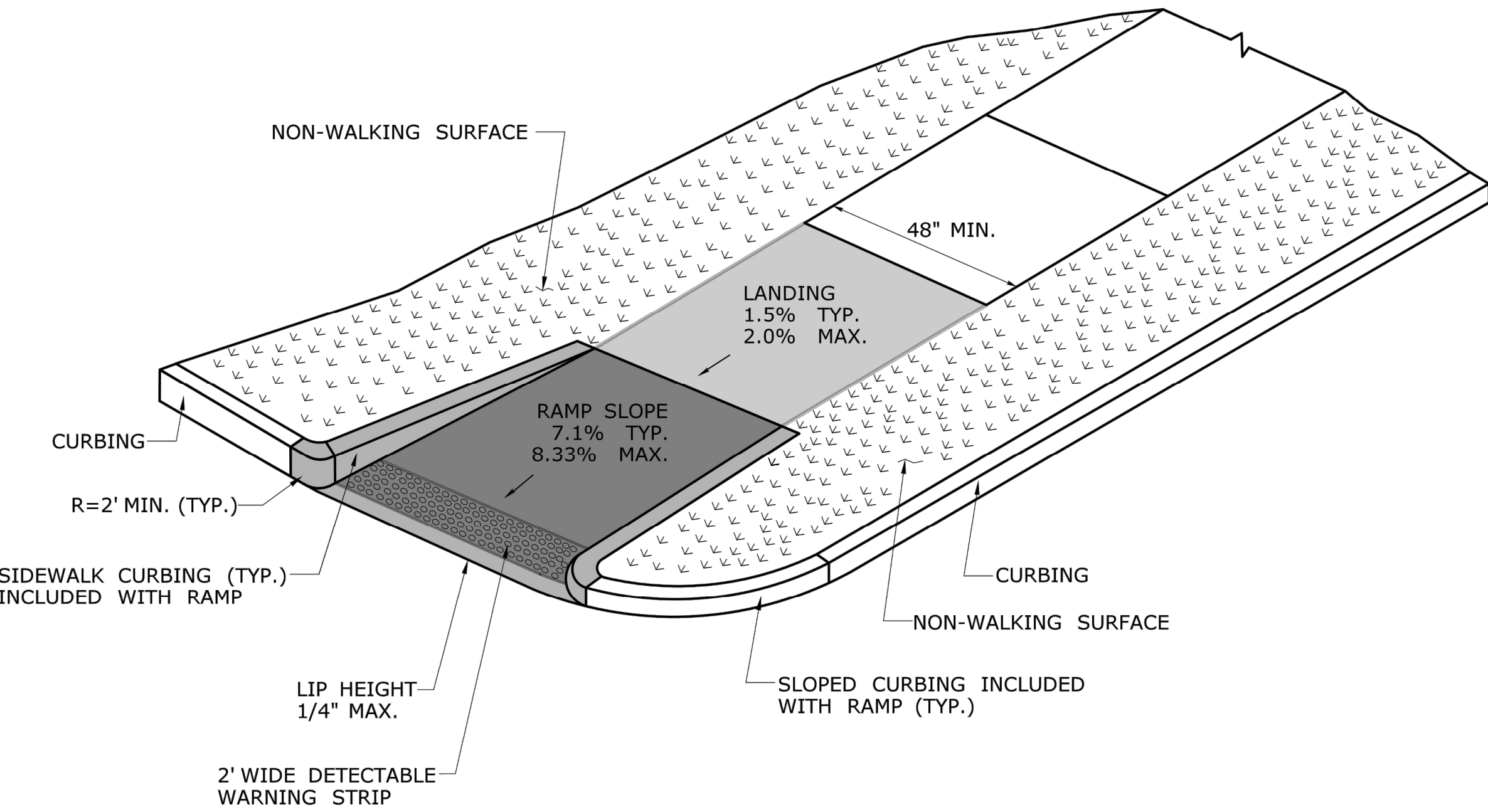
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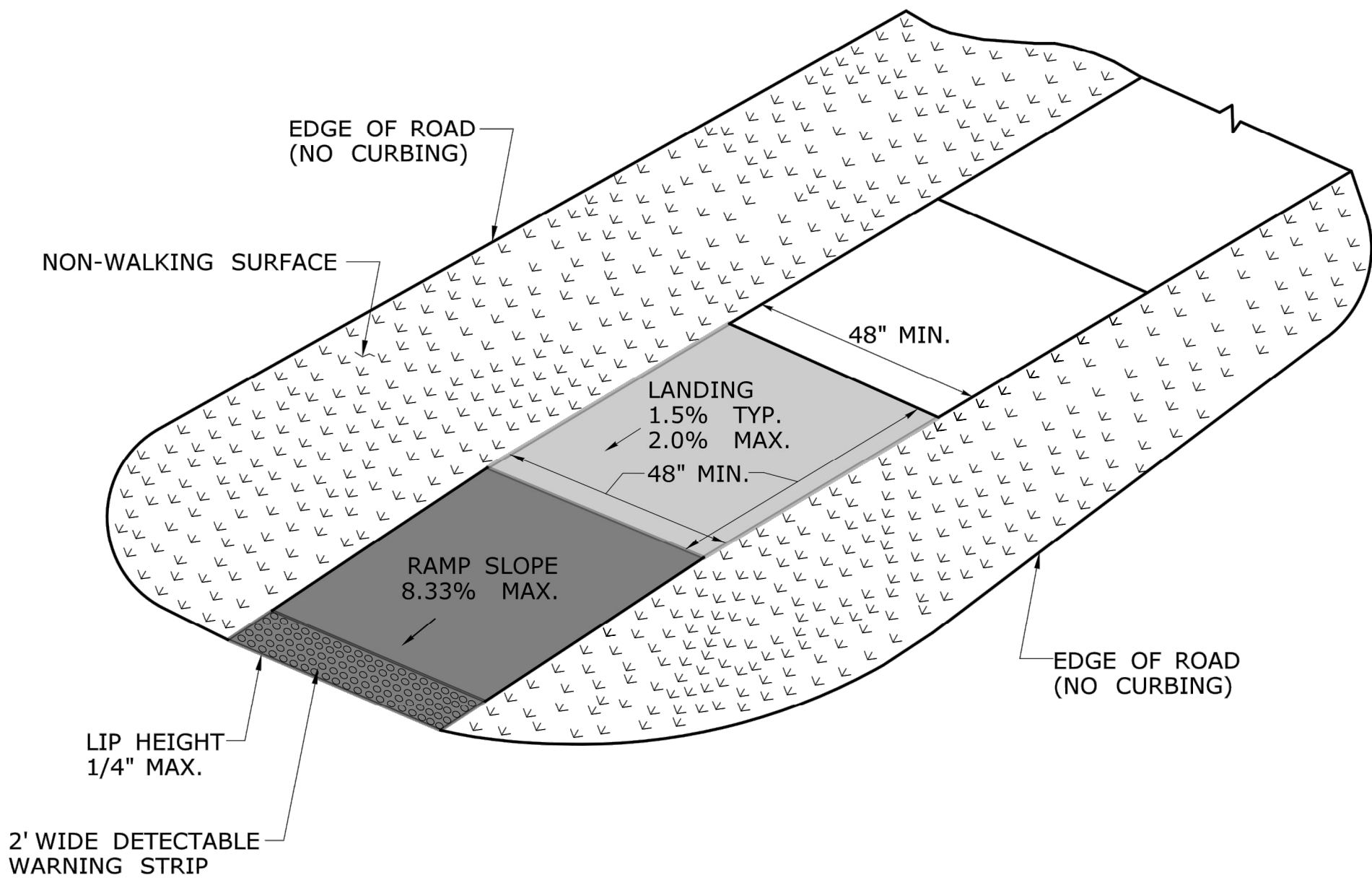
**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK GREATER THAN 5'
(TYPE 14)**



**SINGLE DIRECTION RAMP
WITHOUT NON-WALKING SURFACE
GRADE BREAK LESS THAN 5'
(TYPE 15)**



**SINGLE DIRECTION - RETURN CURB
WITH NON-WALKING SURFACE
(TYPE 16)**



**SINGLE DIRECTION - NO CURB
WITH NON-WALKING SURFACE
(TYPE 17)**

REV.	DATE	DESCRIPTION REVISIONS	SHEET. NO.

DESIGNER: EAN
DRAFTER: JE
CHECKED BY: CF
APPROVED BY: SON



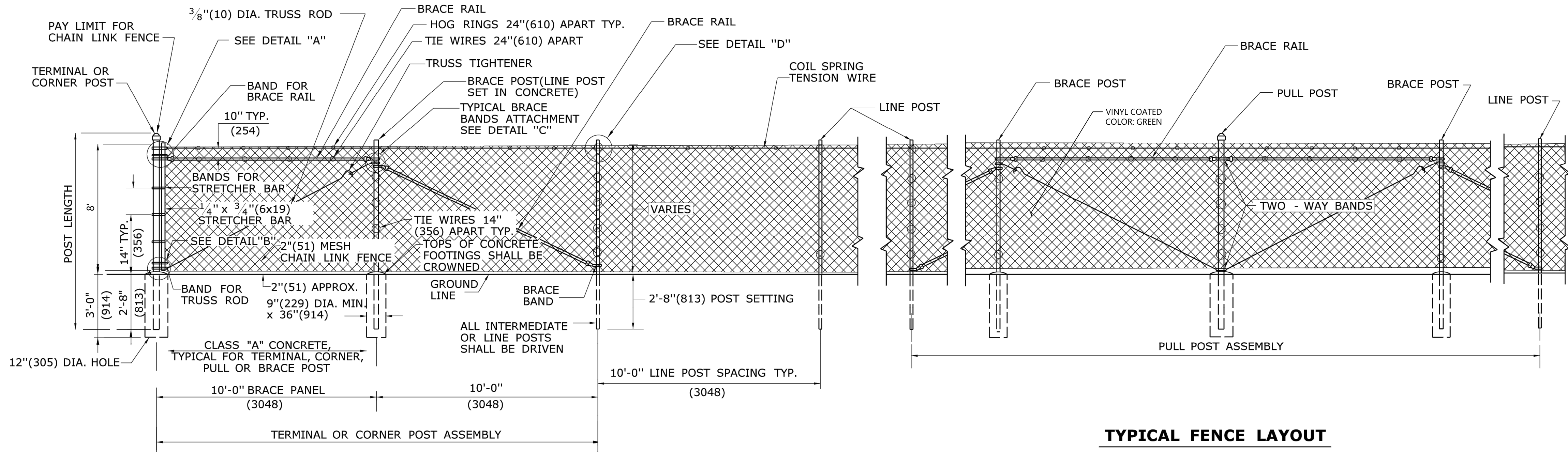
Engineers Scientists Planners Designers

NOT ISSUED FOR CONSTRUCTION DATE:FEBRUARY, 2020

PROJECT TITLE: NAUGATUCK RIVER GREENWAY THOMASTON-WATERTOWN DESIGN PROJECT
CADD FILENAME: MDS-4222400.DWG

TOWN: THOMASTON, CONNECTICUT
DRAWING TITLE: MISCELLANEOUS DETAILS

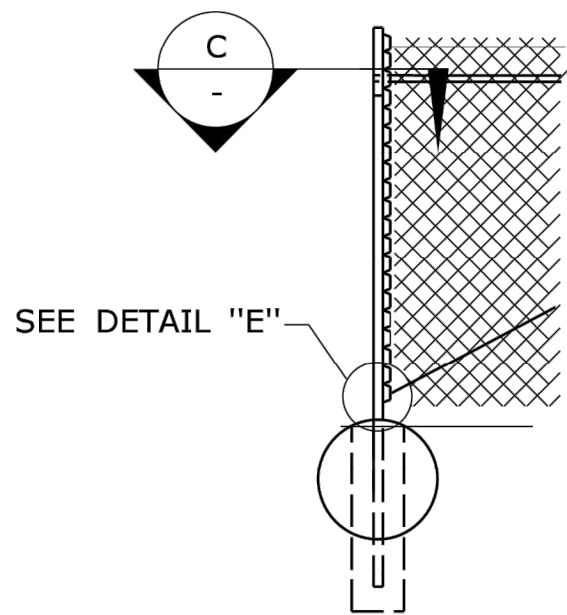
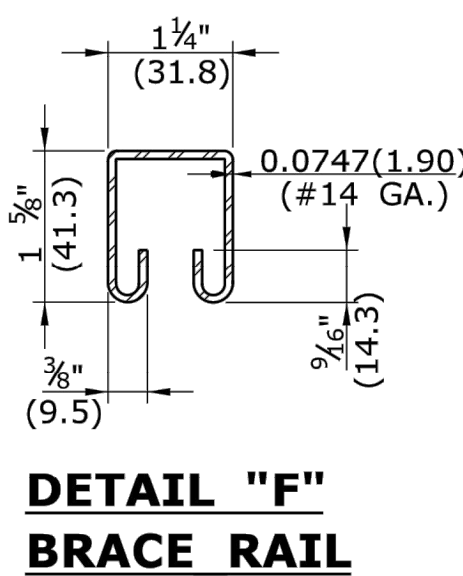
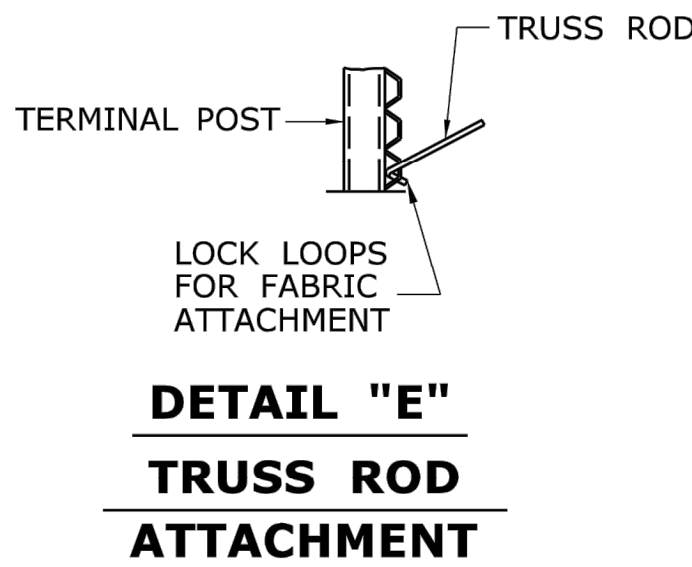
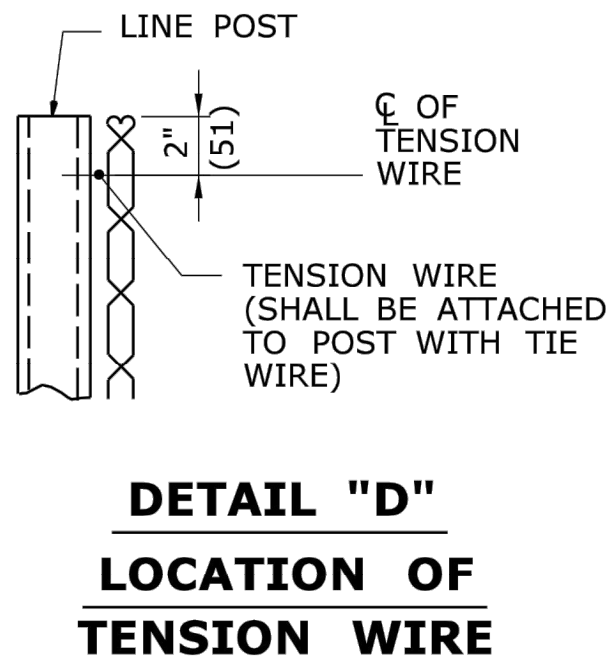
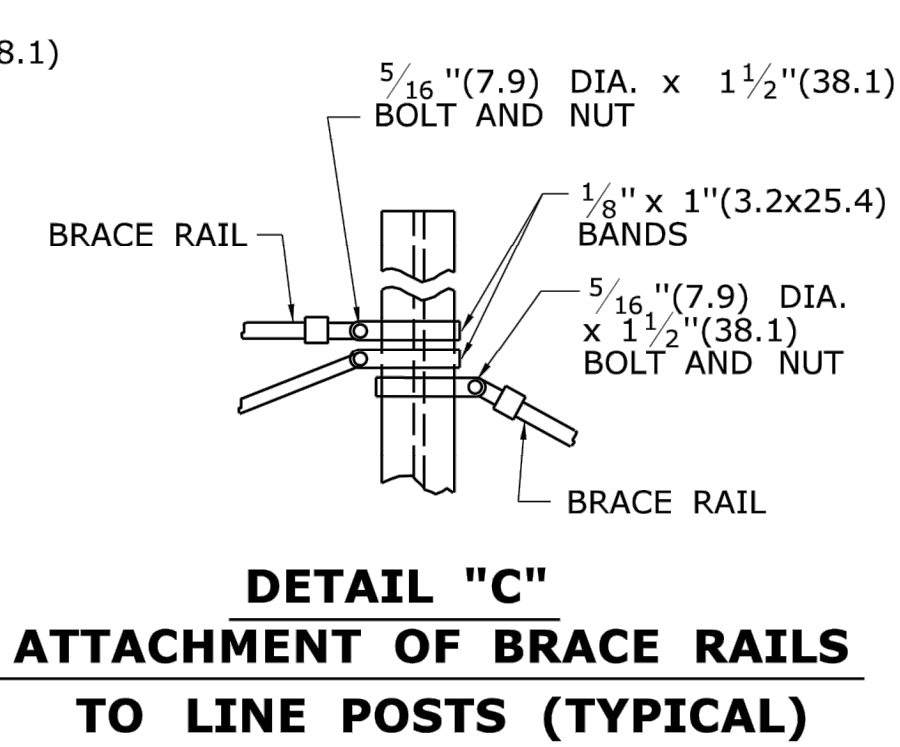
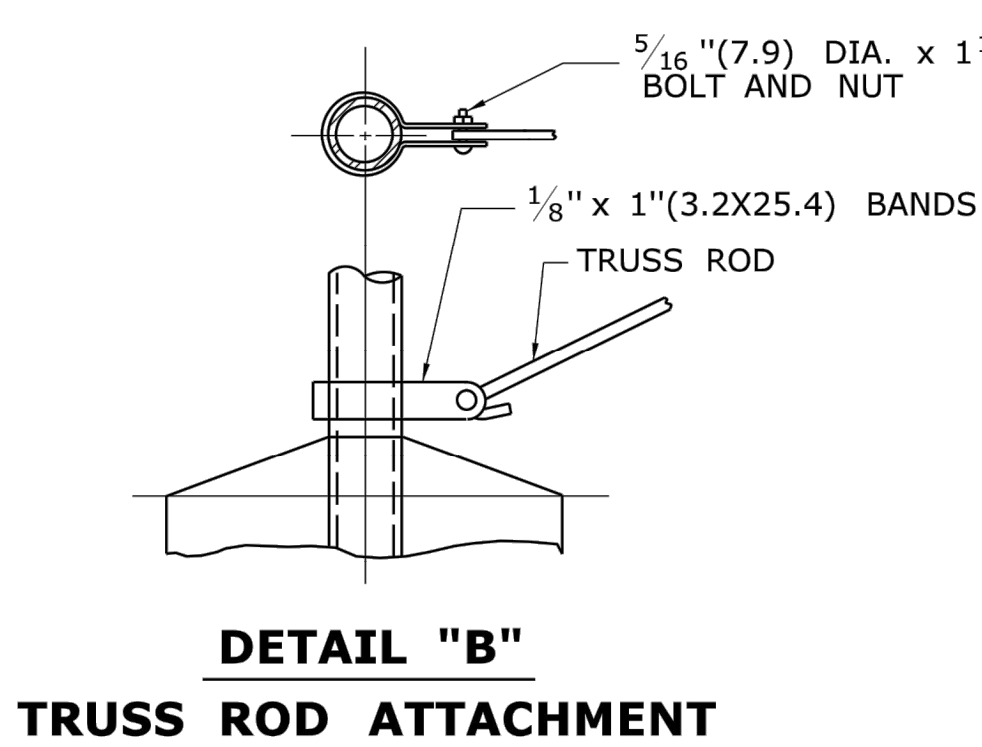
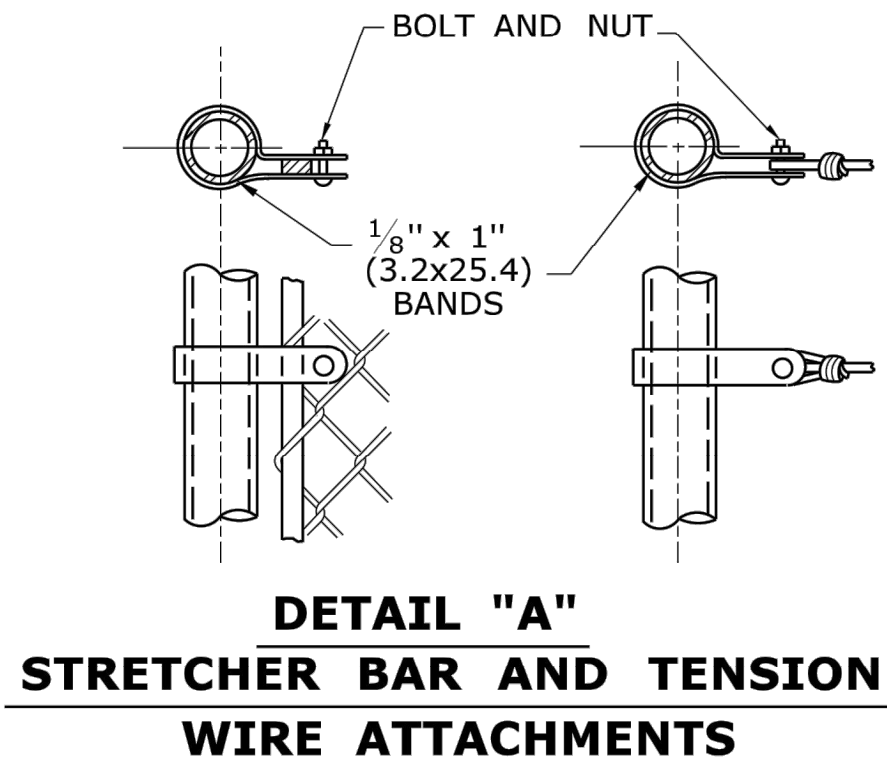
PROJECT NO.: 42224.00
DRAWING NO.: MDS-03
SHEET NO.: 05 OF 17



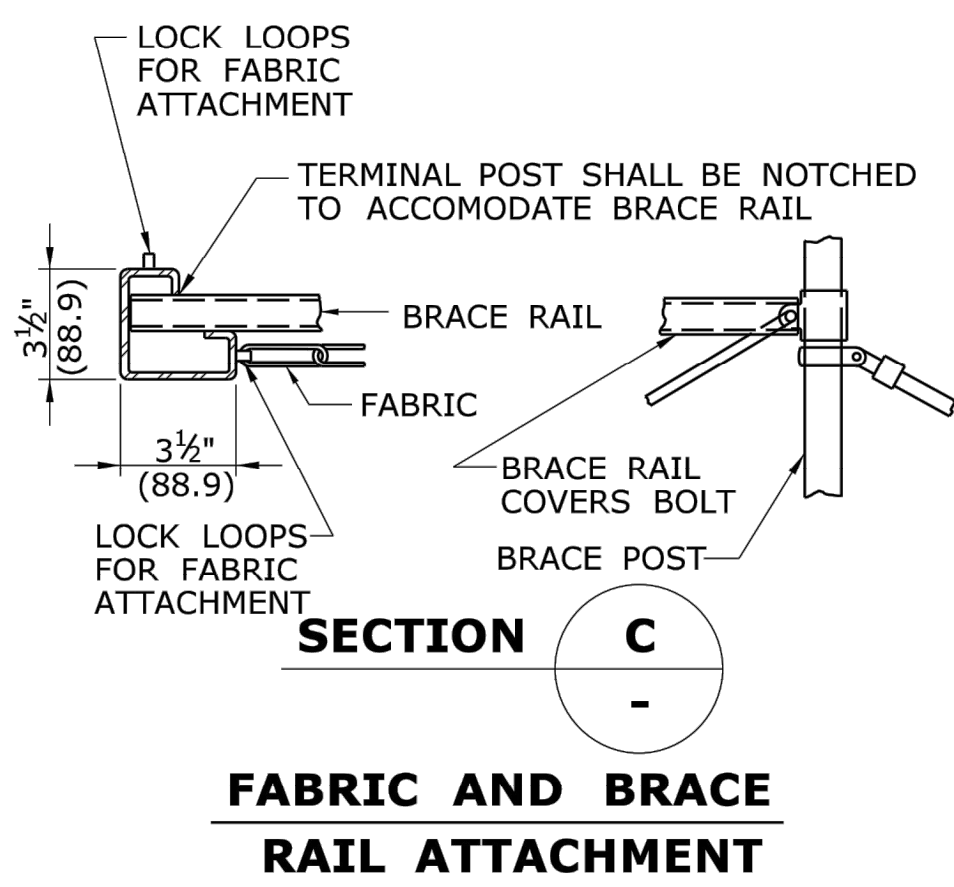
- GENERAL NOTES:**
1. REFER TO SPECIFICATIONS FOR LOCATION OF PULL POST ASSEMBLIES.
 2. ALL SQUARE AND ROUND POSTS WILL BE CAPPED TO PREVENT WATER FROM ENTERING.
 3. WHERE ROCK IS ENCOUNTERED, IT SHALL BE DRILLED AND THE POSTS SET IN CONCRETE OR MORTAR.
 4. FENCE SHALL BE PLACED WITH FABRIC FACING OUTSIDE HIGHWAY RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.

TYPICAL FENCE LAYOUT

ROUND PIPE TERMINAL CORNER OR PULL POST



TERMINAL, CORNER OR PULL POST

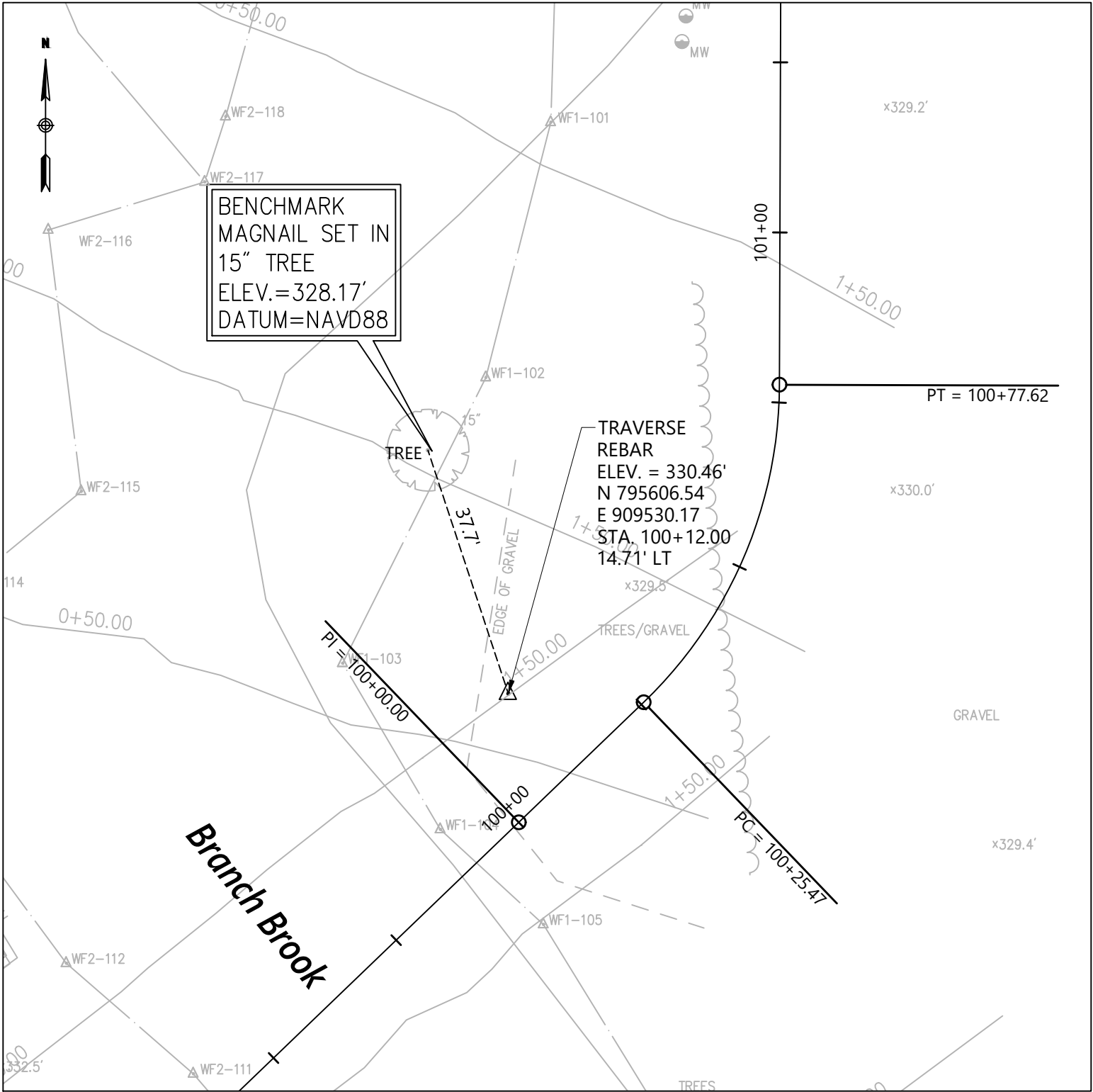


LINE BRACE OR INTERMEDIATE POST	TYPE	MATERIAL	FENCE HEIGHT			
			6'(1.8m) OR LESS		GREATER THAN 6'(1.8m)	
			DIMENSIONS INCHES(mm)	WEIGHT LBS/FT(kg/m)	DIMENSIONS INCHES(mm)	WEIGHT LBS/FT(kg/m)
	"C"	STEEL	1.87 X 1.62 (47.5x41.1)	2.40(3.57)	2.25 x 1.70(57.2x43.2)	2.78(4.14)
		STEEL CLASS 1	1.90(48.3) O.D.	2.72(4.05)	2.37(60.2) O.D.	3.65(5.43)
		STEEL CLASS 2		2.28(3.39)		3.12(4.64)
BRACE RAIL (OR TOP RAIL WHEN SPECIFIED)	PIPE	ALUM. ALLOY		0.94(1.40)		1.25(1.86)
		STEEL	1.62 X 1.25 (41.1x31.75)	1.35(2.01)		
		STEEL CLASS 1	1.31(33.3) O.D.	1.68(2.50)	1.66(42.2) O.D.	2.27(3.38)
TERMINAL CORNER OR PULL POST	PIPE	STEEL CLASS 2		1.34(1.99)		1.84(2.74)
		ALUM. ALLOY	1.62(41.1) O.D.	0.78(1.16)	1.62(41.1) O.D.	0.78(1.16)
		STEEL CLASS 1	2.37(60.2) O.D.	3.65(5.43)	2.87(72.9) O.D.	5.79(8.62)
		STEEL CLASS 2		3.12(4.64)		4.64(6.91)
		ALUM. ALLOY		1.25(1.86)		2.00(2.98)

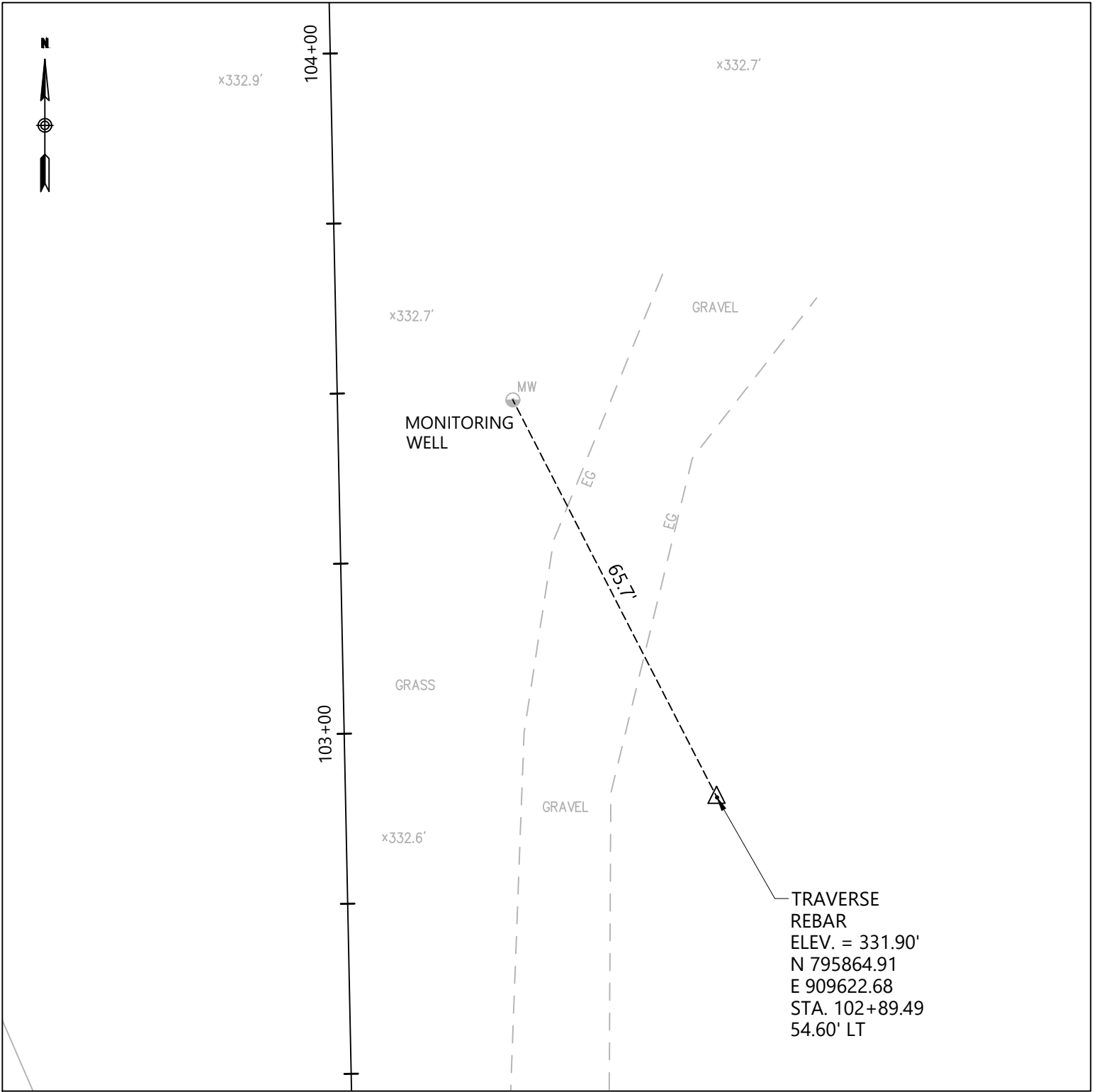
NOTE: A MINUS TOLERANCE OF 5% IN SIZE AND WEIGHT SHALL BE ALLOWED FOR THESE MEMBERS, BUT WILL NOT APPLY TO THE ZINC OR POLYVINYL CHLORINE COATING. * DIMENSIONS AND WEIGHT ARE FOR A FENCE HEIGHT OF 9'(2.7m) OR LESS.

MINIMUM DIMENSIONS AND WEIGHTS FOR POSTS AND RAILS

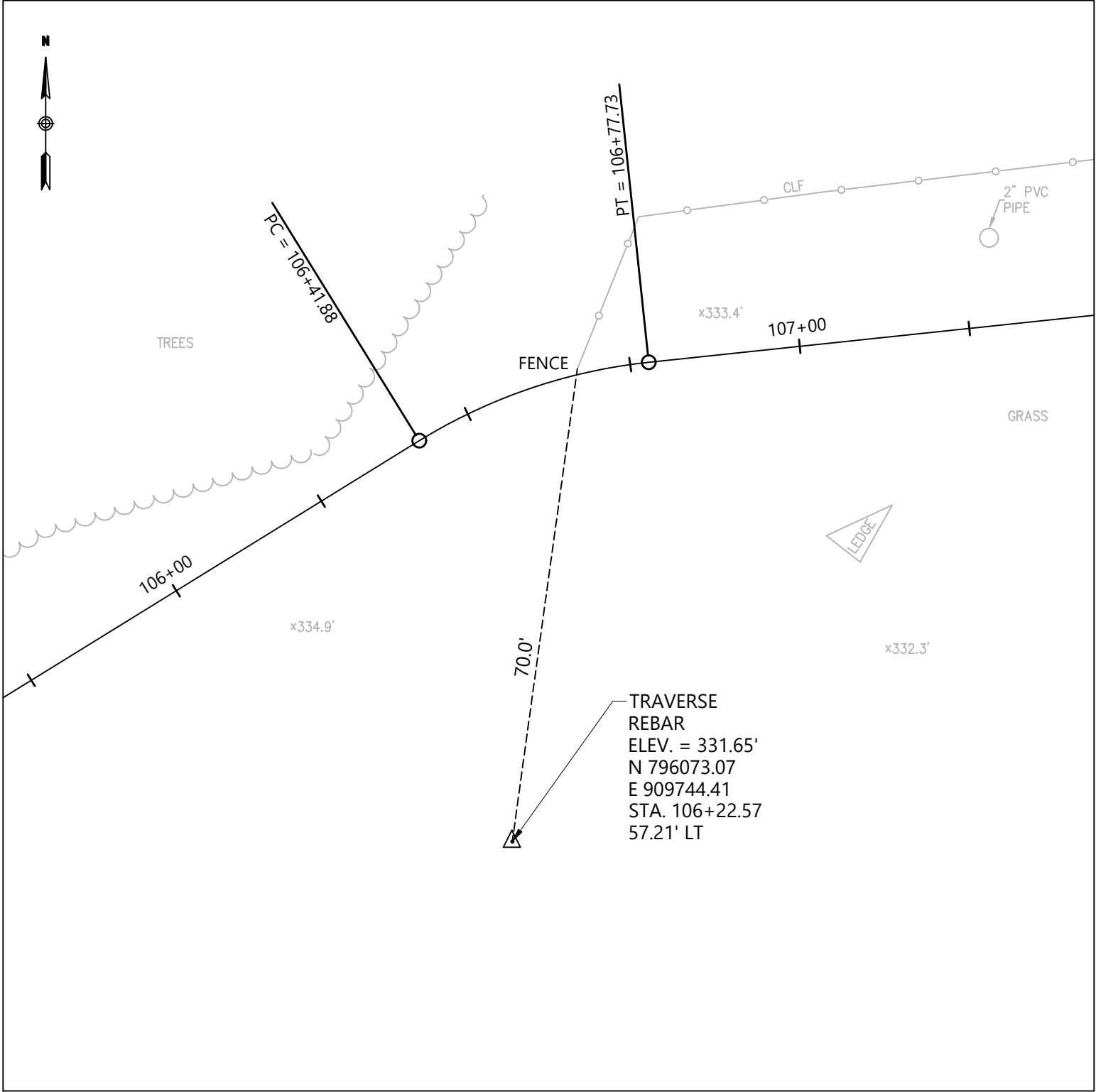
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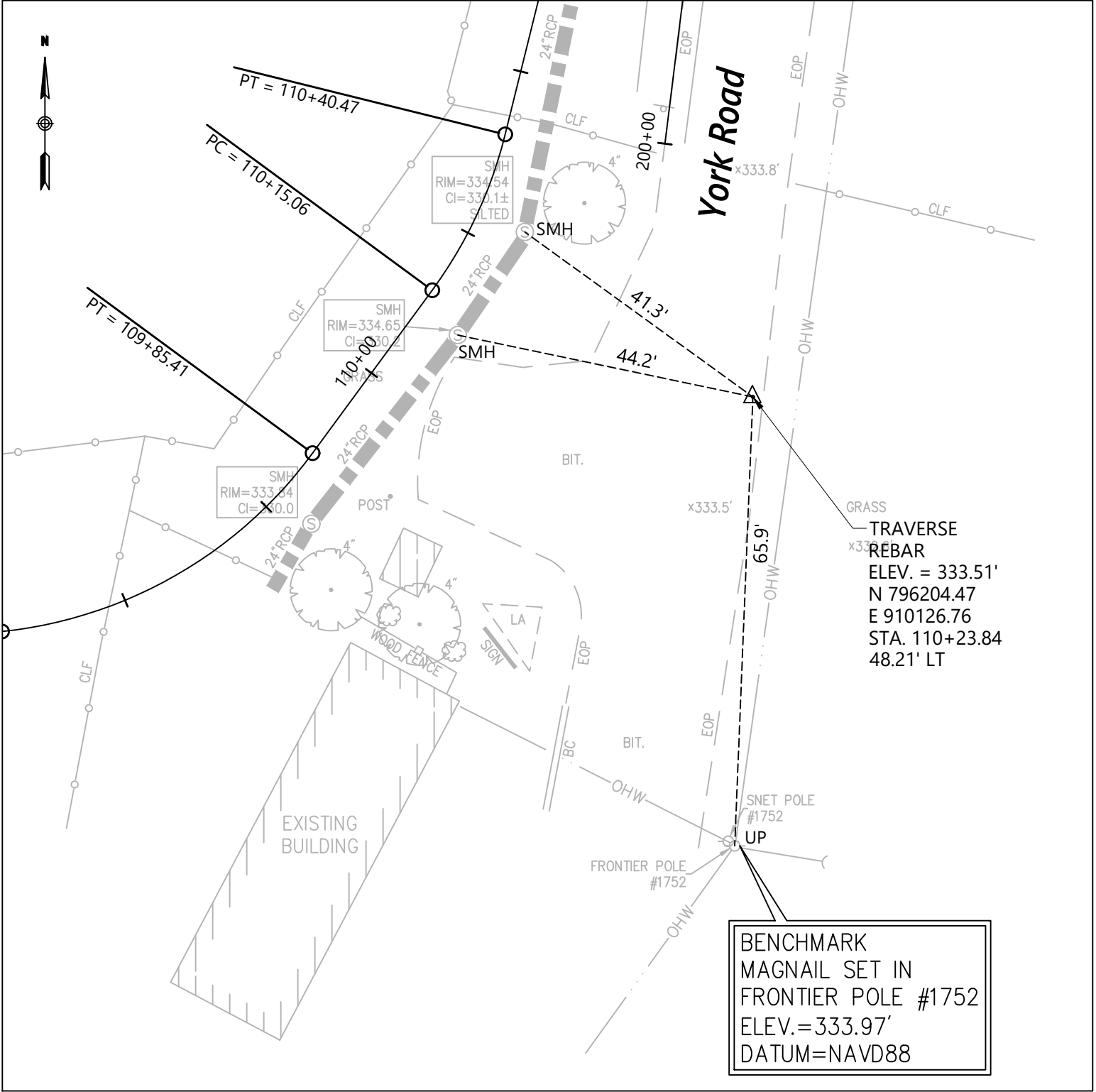
CONTROL POINT # 1



CONTROL POINT # 2



CONTROL POINT # 3



CONTROL POINT # 4

REV.	DATE	DESCRIPTION	SHEET. NO.
		REVISIONS	



DESIGNER: EAN
DRAFTER: JE
CHECKED BY: CF
APPROVED BY: SON



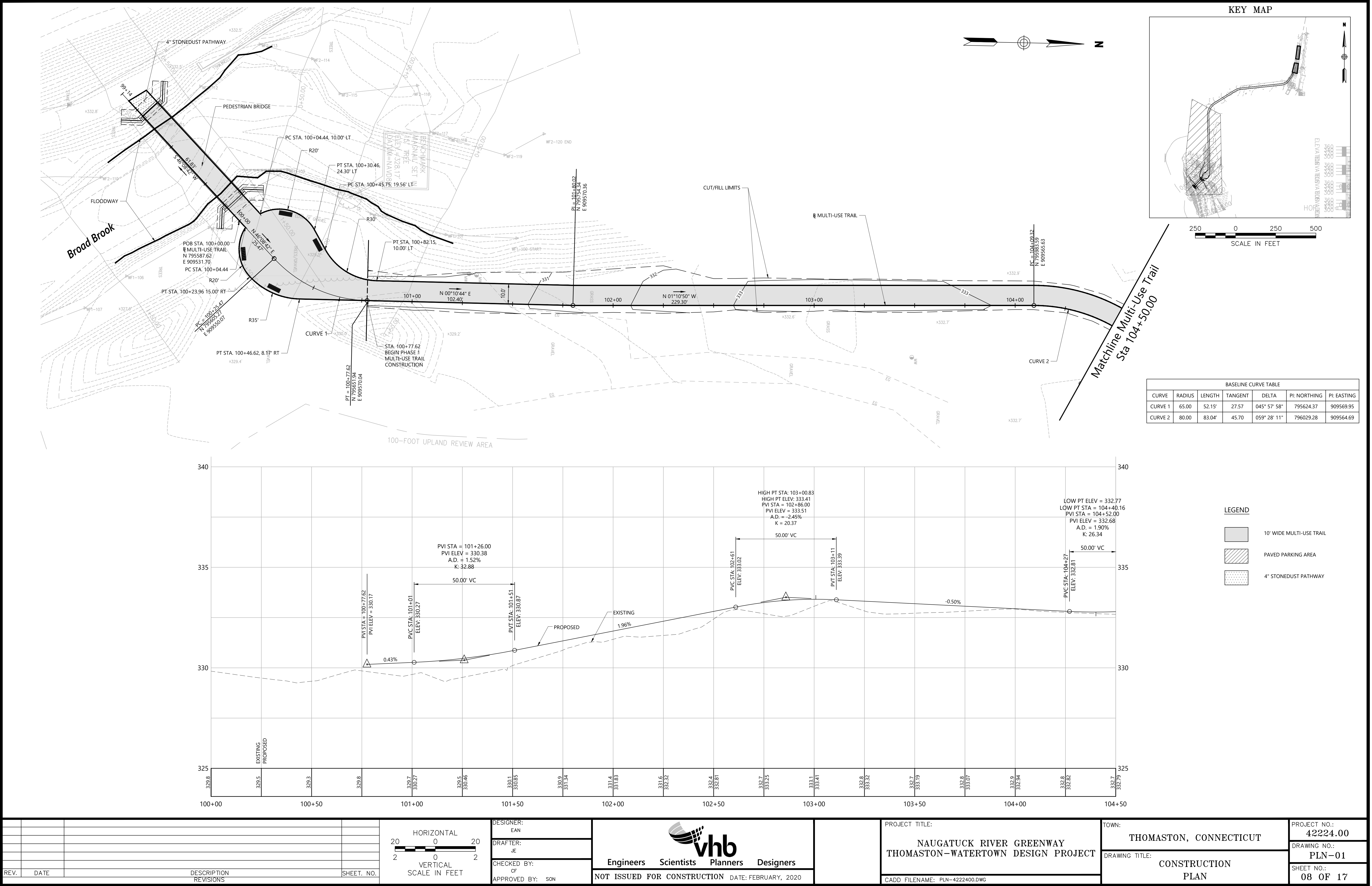
Engineers Scientists Planners Designers

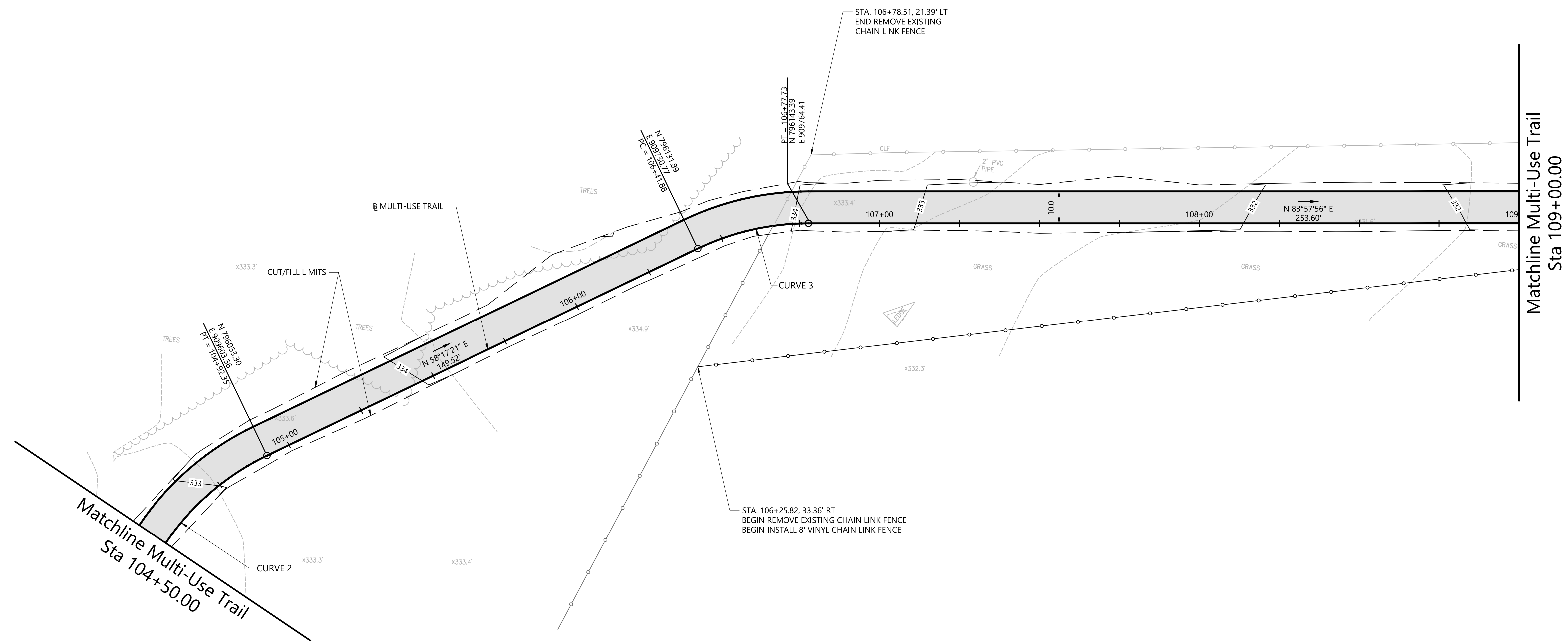
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CADD. FILENAME: CTR-4222400.DWG

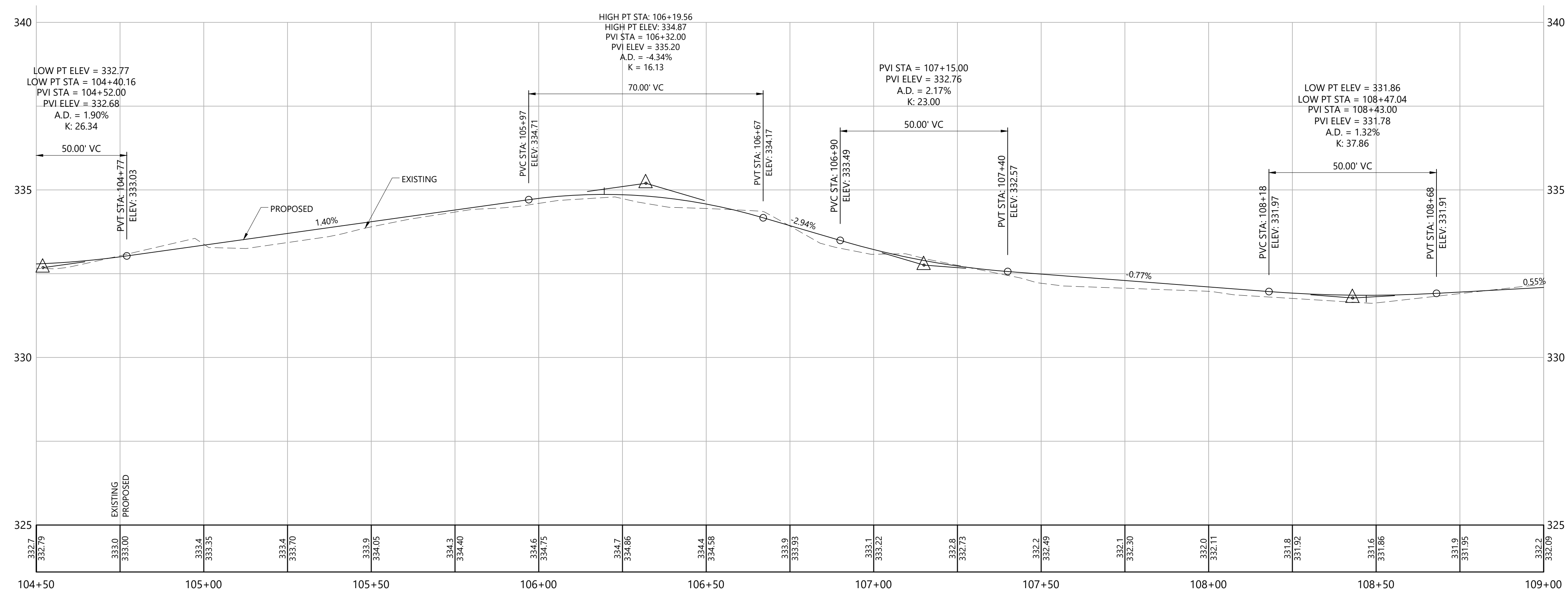
TOWN: THOMASTON, CONNECTICUT
DRAWING TITLE: CONTROL POINT TIE PLANS

PROJECT NO.: 42224.00
DRAWING NO.: CTR-01
SHEET NO.: 07 OF 17








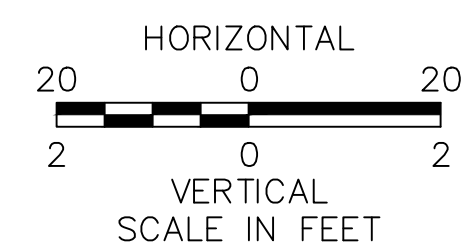
BASELINE CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	PI: NORTHING	PI: EASTING
CURVE 2	80.00	83.04'	45.70	059° 28' 11"	796029.28	909564.69
CURVE 3	80.00	35.85'	18.23	025° 40' 35"	796141.47	909746.28



LEGEND

- | | |
|---|--------------------------|
|  | 10' WIDE MULTI-USE TRAIL |
|  | PAVED PARKING AREA |
|  | 4" STONEDUST PATHWAY |

REV.	DATE	DESCRIPTION REVISIONS	SHEET. NO.



DESIGNER:	EAN
DRAFTER:	JE
CHECKED BY:	CF
APPROVED BY:	SON



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NOT ISSUED FOR CONSTRUCTION DATE: FEBRUARY, 2020

PROJECT TITLE:

NAUGATUCK RIVER GREENWAY
THOMASTON-WATERTOWN DESIGN PROJECT

CADD FILENAME: PLN-4222400.DWG

TOWN:

THOMASTON, CONNECTICUT

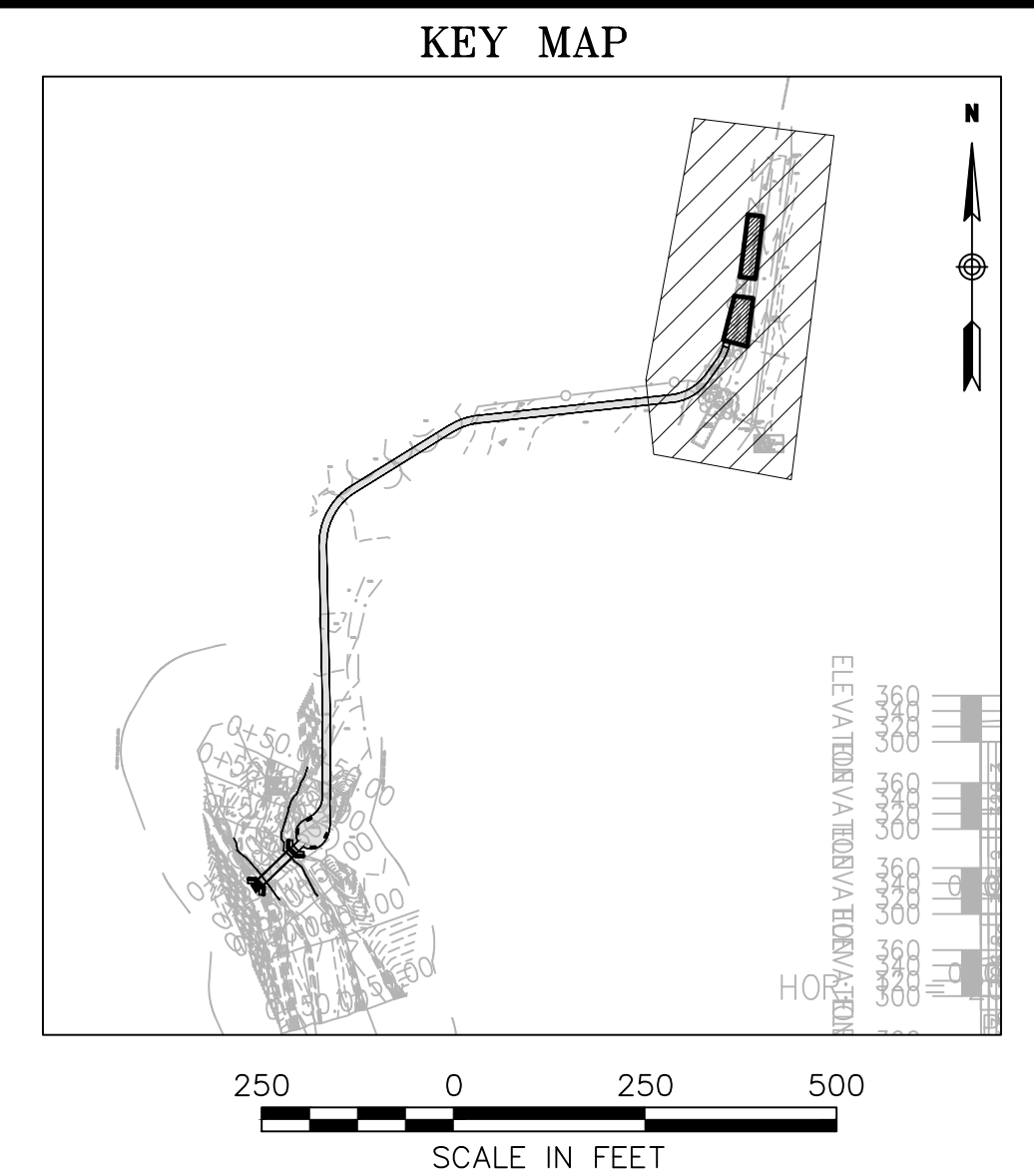
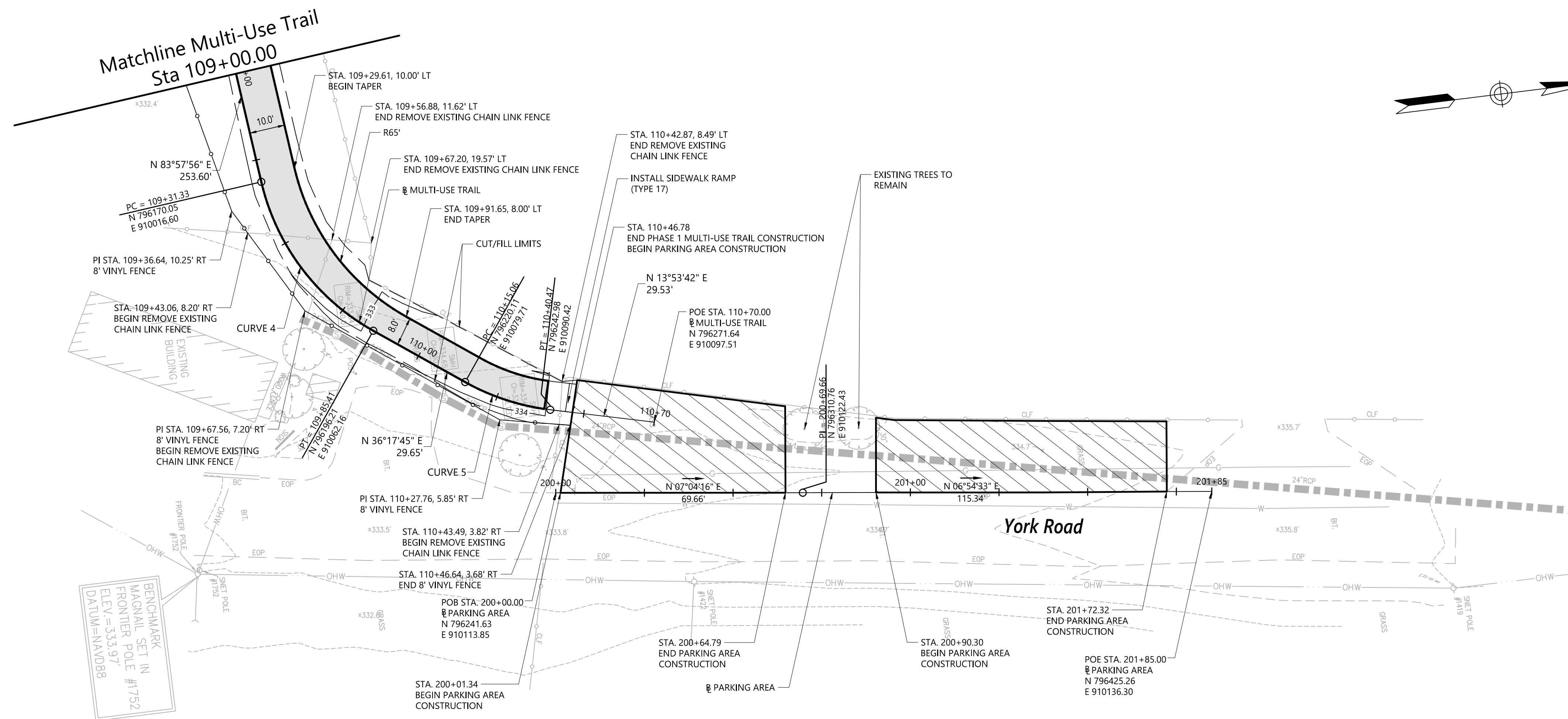
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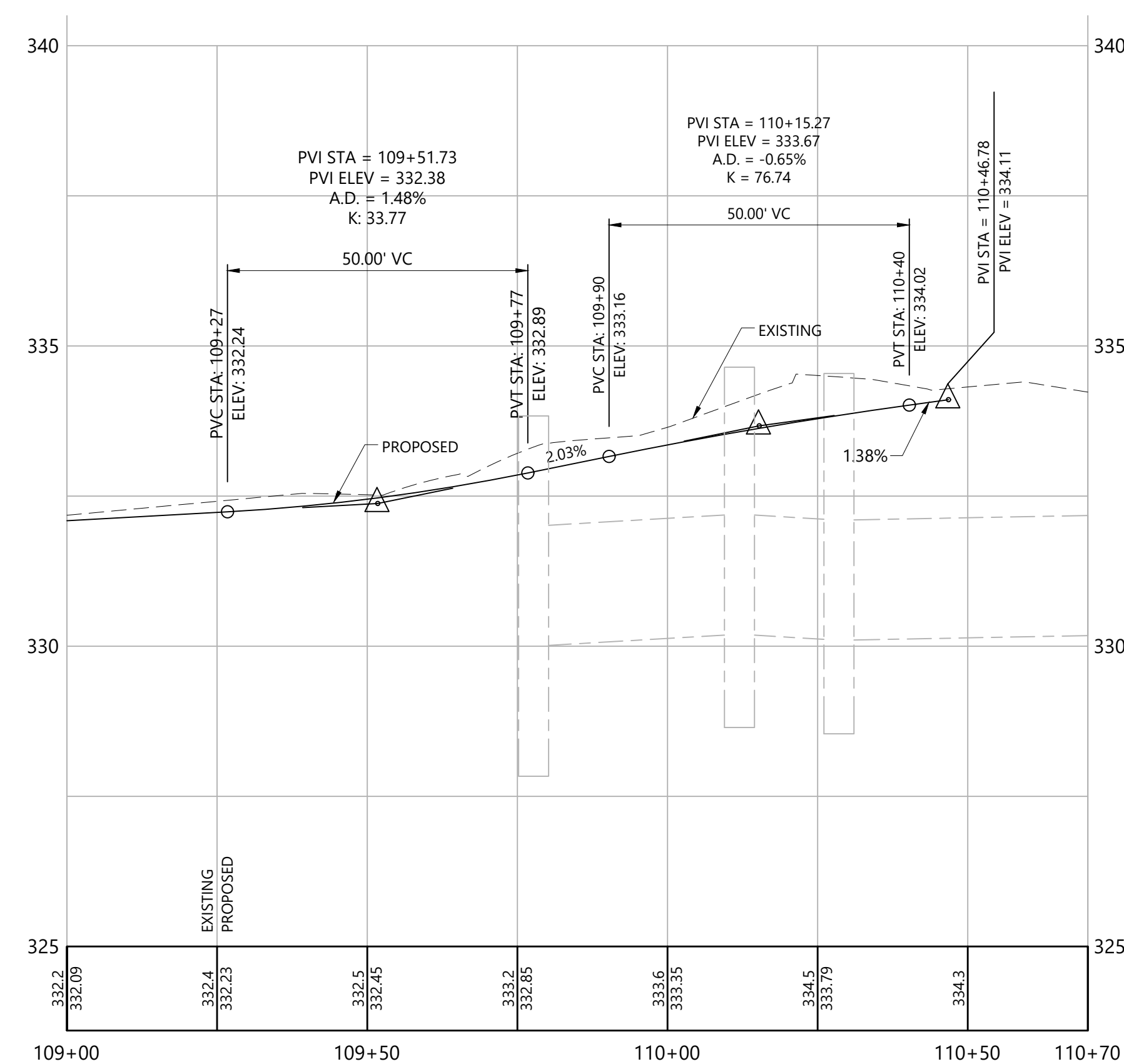
PROJECT NO.:
42224.00

DRAWING NO.:
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


SHEET NO.:
09 OF 17



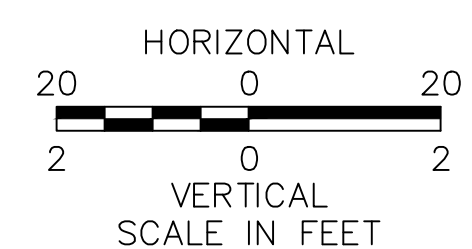
BASELINE CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	PI: NORTHING	PI: EASTING
CURVE 4	65.00	54.08'	28.72	047° 40' 12"	796173.07	910045.16
CURVE 5	65.00	25.41'	12.87	022° 24' 03"	796230.49	910087.33



LEGEND

- | | |
|---|--------------------------|
|  | 10" WIDE MULTI-USE TRAIL |
|  | PAVED PARKING AREA |
|  | 4" STONEDUST PATHWAY |

REV.	DATE	DESCRIPTION REVISIONS	SHEET. NO.



DESIGNER:	EAN
DRAFTER:	JE
CHECKED BY:	CF
APPROVED BY:	SOM



Engineers Scientists Planners Designers

NOT ISSUED FOR CONSTRUCTION DATE: FEBRUARY, 2020

PROJECT TITLE:

NAUGATUCK RIVER GREENWAY
THOMASTON-WATERTOWN DESIGN PROJECT

CADD FILENAME: PLN-4222400.DWG

TOWN:

THOMASTON, CONNECTICUT

DRAWING TITLE:

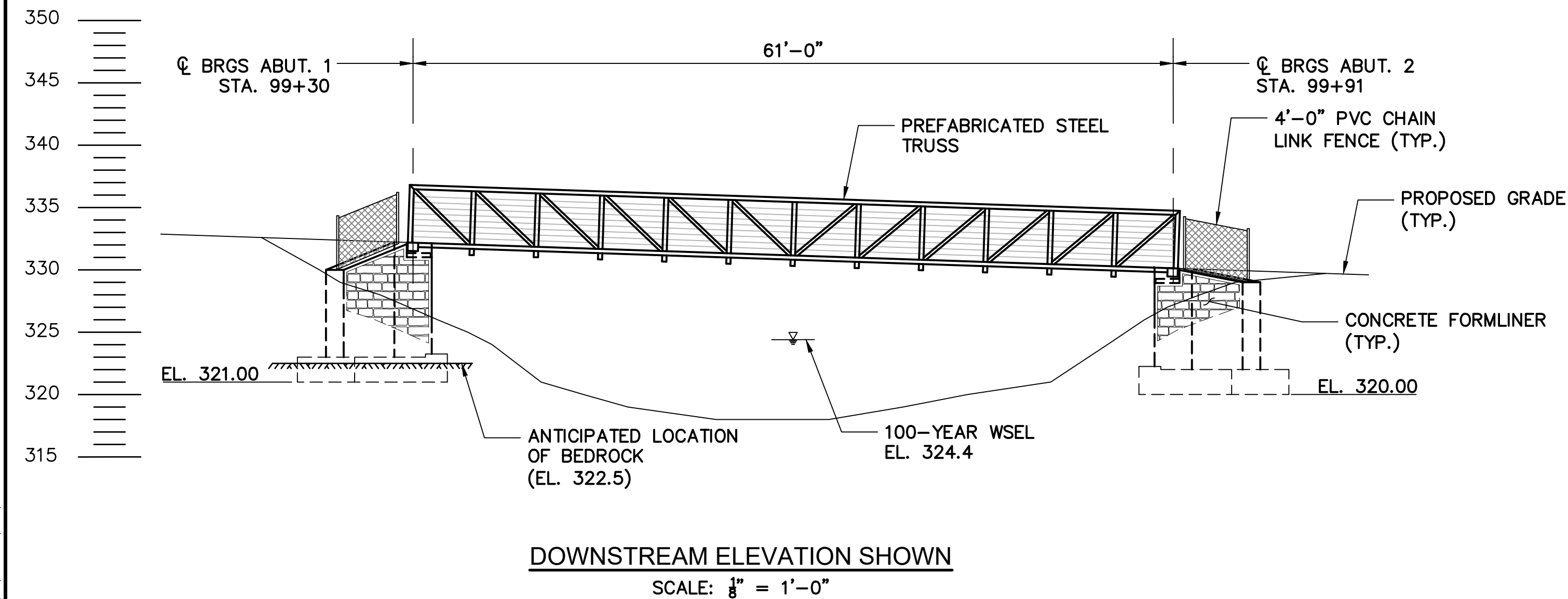
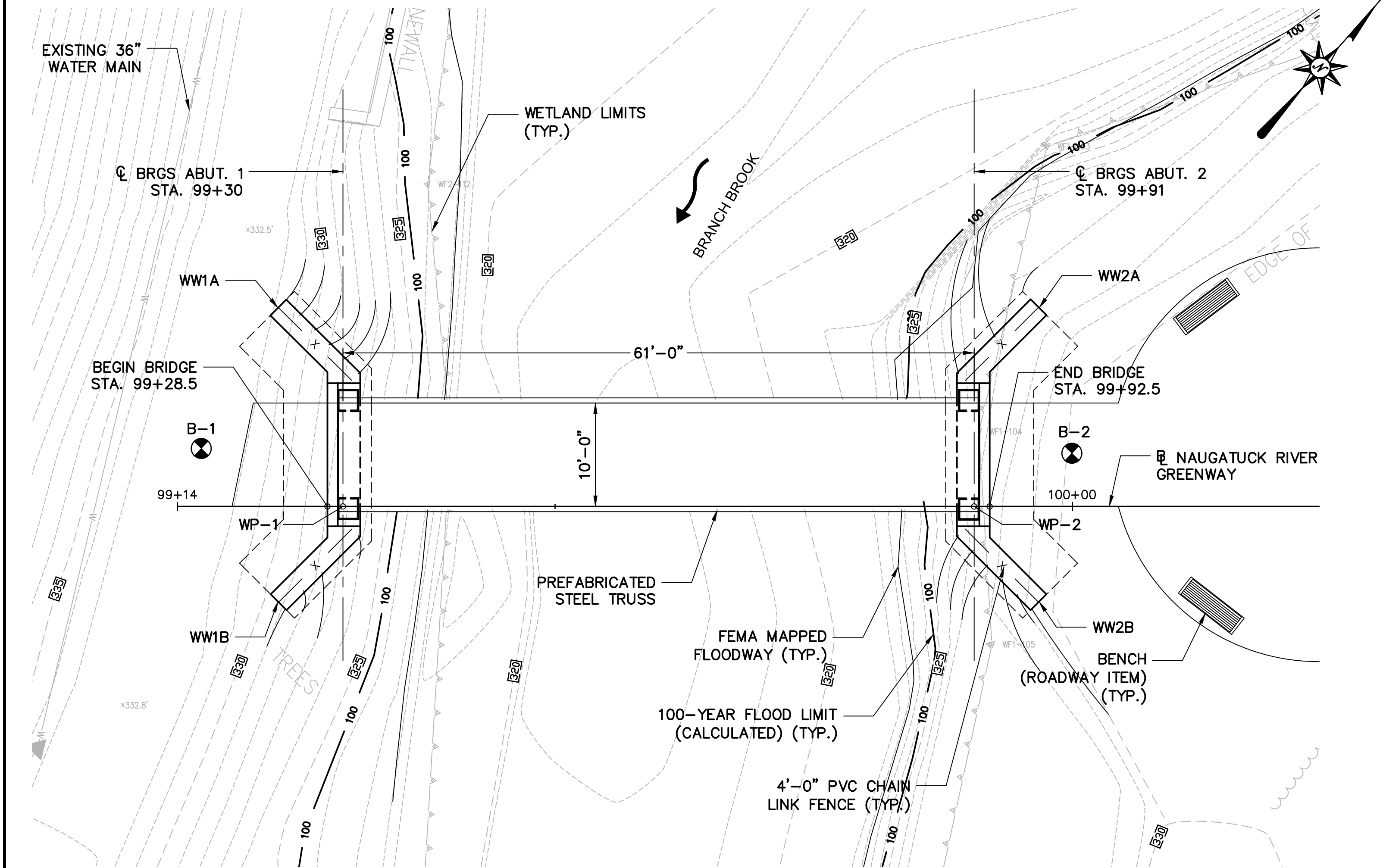
CONSTRUCTION PLAN

PROJECT NO.:
42224.00

DRAWING NO.:
PLN-03

SHEET NO.:
10 OF 17

1/31/2020, TBLACK, G:\J08518\04\1800579\DWG\TBRG180057901.DWG, S-1, 24,306



DRAWING INDEX	
GENERAL PLAN, SECTION, AND ELEVATION	S-1
LAYOUT PLAN	S-2
BORING LOGS	S-3
STAGE CONSTRUCTION PLAN	S-4
SUBSTRUCTURE DETAILS - 1	S-5
SUBSTRUCTURE DETAILS - 2	S-6
SUPERSTRUCTURE DETAILS	S-7

INSPECTION OF FIELD WELDS		
METHOD	UNIT	QUANTITY
ULTRASONIC	INCH	0
MAGNETIC PARTICLE	FEET	0

CONCRETE DISTRIBUTION		
SUPERSTRUCTURE	C.Y.	0
SUBSTRUCTURE	C.Y.	45
FOOTINGS	C.Y.	45
TOTAL	C.Y.	90

LEGEND	
	B-X APPROXIMATE BORING LOCATION
	WETLAND LIMITS

FLOOD NOTE	
FLOODPLAIN LIMITS SHOWN AT CALCULATED ELEVATIONS. FLOODWAY LIMITS TAKEN FROM FEMA FLOOD MAPPING. REFER TO THE FOLLOWING FOR DETAILED INFORMATION: <ul style="list-style-type: none">TOWN OF THOMASTON FIRM, PANEL 5 OF 6TOWN OF WATERTOWN FLOOD INSURANCE STUDY FLOODWAY DATA, TABLE 2TOWN OF WATERTOWN FLOOD INSURANCE STUDY FLOOD PROFILE, 03P	

NOTICE TO BRIDGE INSPECTORS	
IT IS RECOMMENDED THAT CONNDOT'S BRIDGE SAFETY PROCEDURES BE FOLLOWED WHEN INSPECTING THIS BRIDGE FOR, BUT NOT LIMITED TO ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING OF COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATIONS.	
COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
TRUSS BOTTOM CHORDS	S-7
TRUSS DIAGONALS	S-7

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2016), SUPPLEMENTAL SPECIFICATIONS DATED JULY, 2019 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (2009) UP TO AND INCLUDING 2015 INTERIMS AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL, 2003 EDITION UP TO AND INCLUDING 2019 REVISIONS.

MATERIAL STRENGTHS:

CLASS PCC 04460:
REINFORCEMENT (ASTM A615 GRADE 60)
STRUCTURAL STEEL (AASHTO M270, GRADE 50W)

f'c=4,000 psi
fy=60,000 psi
fy=50,000 psi

LIVE LOAD:

STANDARD DESIGN VEHICLE: AASHTO H-10
UNIFORM PEDESTRIAN LOAD: 90 PSF

FUTURE PAVING ALLOWANCE:

FOUNDATION PRESSURES: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

CONCRETE NOTES

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE THREE INCHES OF COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."

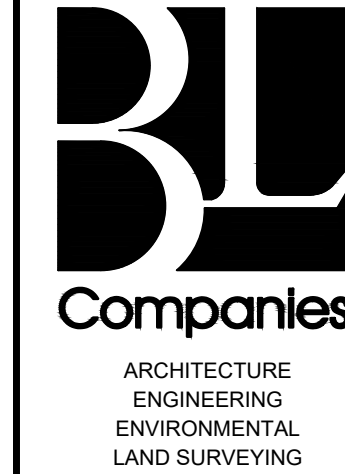
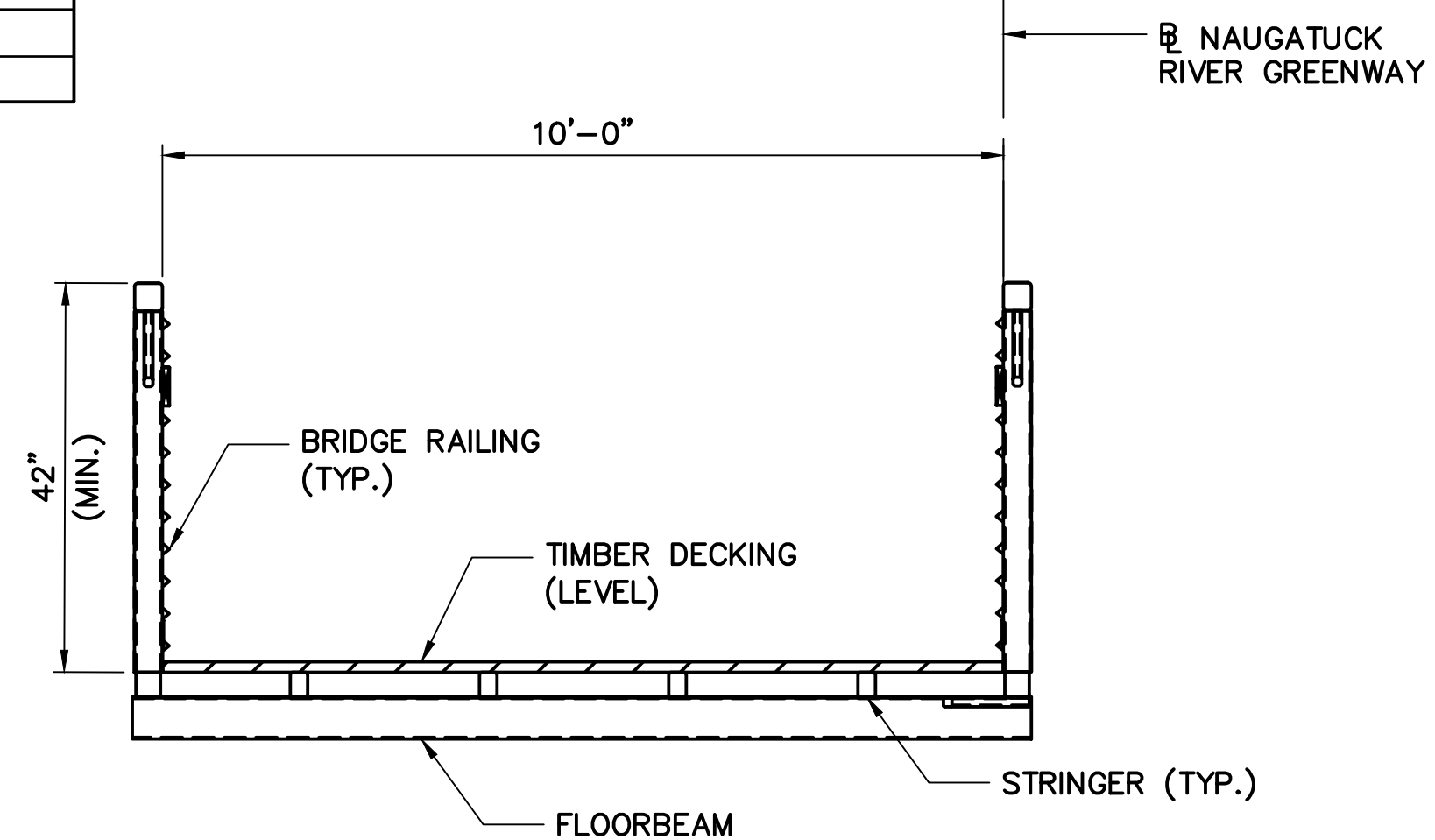
PREFORMED EXPANSION JOINT FILLER: THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1/2" JOINT FILLER FOR BRIDGES."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

PREFABRICATED STEEL TRUSS: THIS DRAWING IS BASED OFF OF A CONTECH "CONTINENTAL STEEL TRUSS". THE CONTRACTOR CAN ELECT TO USE A SIMILAR TRUSS DESIGN AS APPROVED BY THE ENGINEER. SEE SPECIAL PROVISION.

ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	ABUTMENT AND WINGWALL FOOTINGS	PCC04460
ABUTMENT AND WALL CONCRETE	ABUTMENT AND WINGWALL STEMS, CONCRETE BEARING PEDESTALS, CHEEKWALLS	PCC04460

TRANSPORTATION DATA				
MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
BRIDGE	61'-0"	5'-8"	12'-0"	18,800 LBS



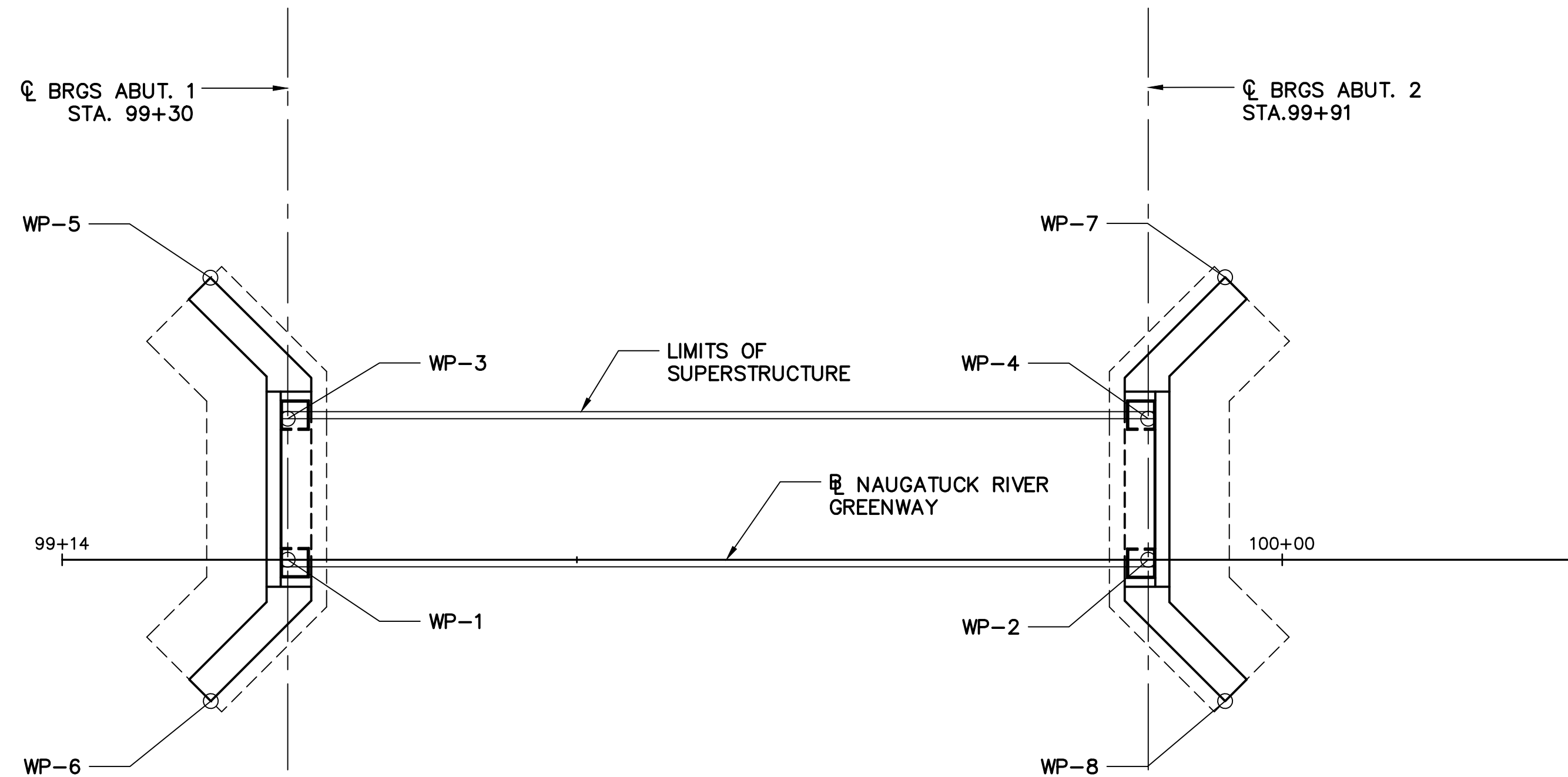
100 Constitution Plaza, 10th Floor
Hartford, CT 06103
(860) 249-2200
(860) 249-2400 Fax



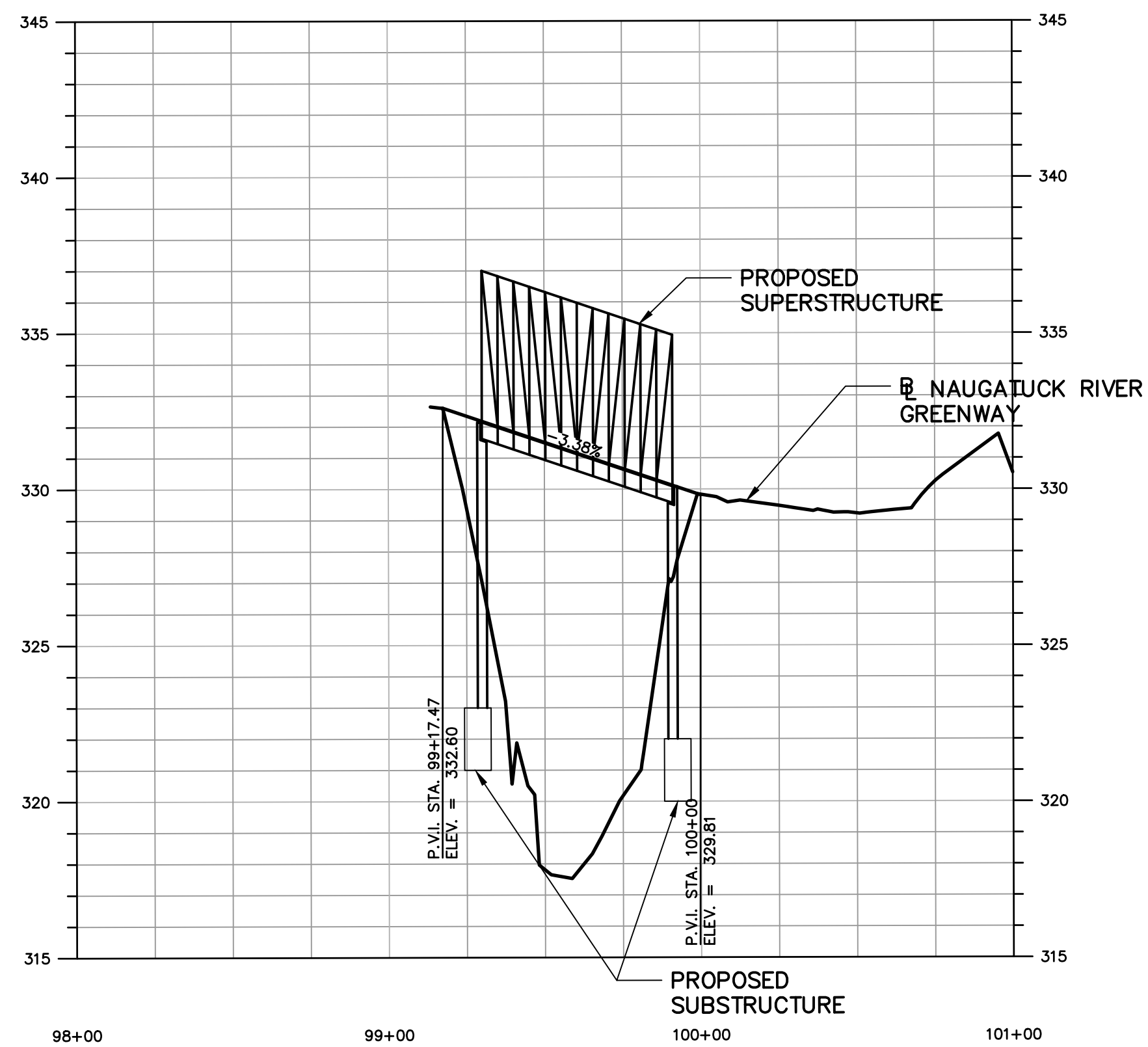
NAUGATUCK RIVER GREENWAY
PEDESTRIAN BRIDGE OVER BRANCH BROOK
THOMASTON, CONNECTICUT

REVISIONS		DESIGNED	
No.	Date	Drawn	Reviewed
		T.M.B./D.W.H.	C.A.P.
		Scale	AS NOTED
		Project No.	1800579
		Date	12/30/2019
		CAD File:	TBRG180057901
		Title	GENERAL PLAN, SECTION, AND ELEVATION
		Sheet No.	

S-1



LAYOUT PLAN
SCALE: 1/8" = 1'-0"



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

NOTES

1. FOR COMPLETE BASELINE GEOMETRY, SEE THE HORIZONTAL ALIGNMENT SHEETS.
2. REFER TO SHEET S-5 AND S-6 FOR THE GEOMETRY OF THE SUBSTRUCTURE.

WORKING POINT COORDINATES			
WP	LOCATION	NORTHING	EASTING
WP-1	CL BRGS ABUT. 1 AND BASELINE	795538.78	909480.87
WP-2	CL BRGS ABUT. 2 AND BASELINE	795581.04	909524.85
WP-3	CL BRGS ABUT. 1 AND NORTH GUTTERLINE	795545.99	909473.94
WP-4	CL BRGS ABUT. 2 AND NORTH GUTTERLINE	795588.25	909517.93
WP-5	WINGWALL 1A	795549.40	909463.06
WP-6	WINGWALL 1B	795527.78	909483.88
WP-7	WINGWALL 2A	795599.26	909514.92
WP-8	WINGWALL 2B	795577.59	909535.73

[illegible]

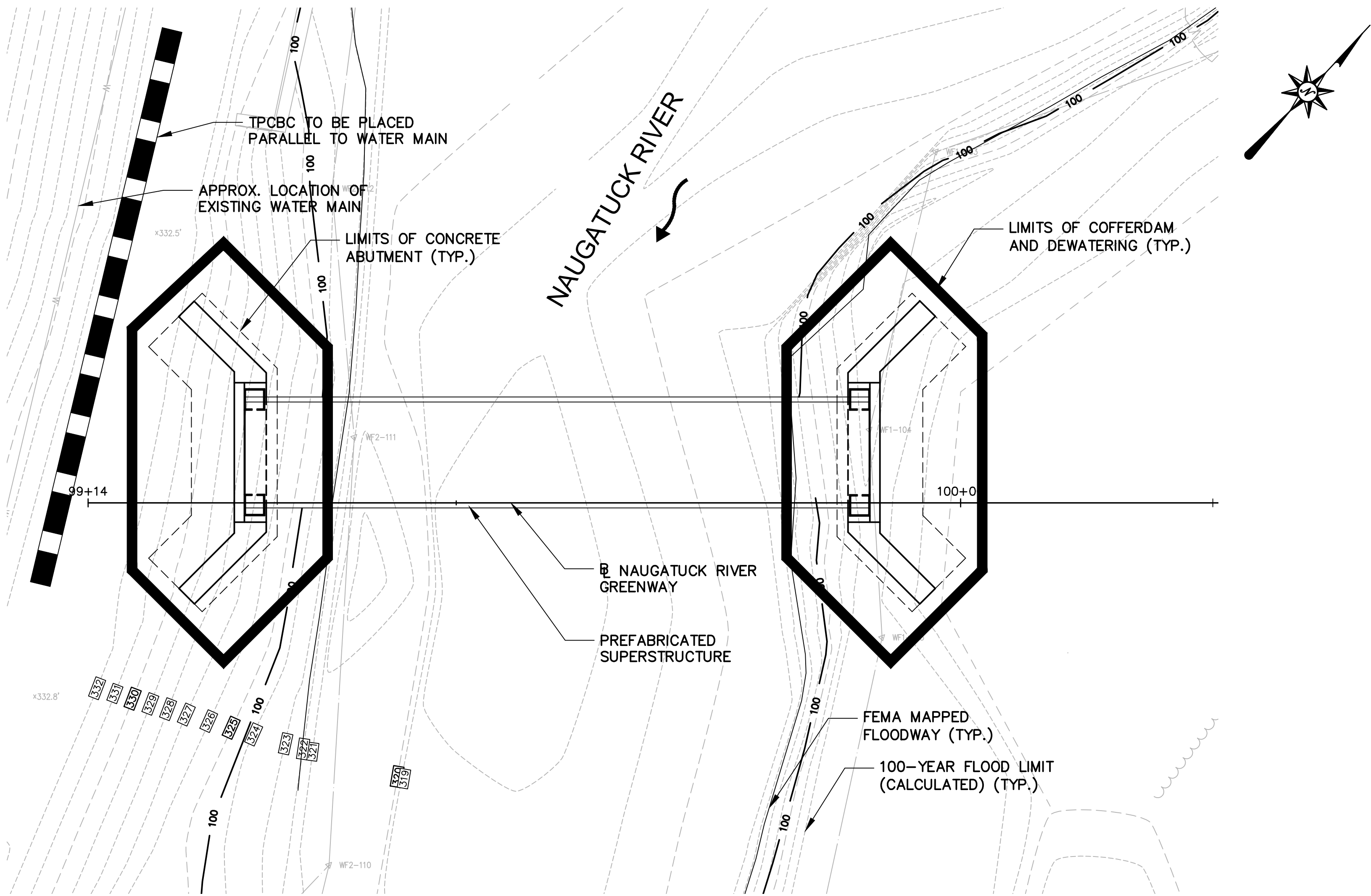
1. BORINGS TAKEN BY SOIL TESTING ON OCTOBER 3 AND OCTOBER 4, 2019.

NAUGATUCK RIVER GREENWAY
PEDESTRIAN BRIDGE OVER BRANCH BROOK
THOMASTON, CONNECTICUT

S-3

1/31/2020, TBLACK, G:\08518\08518\080579\DWG\TBRG180057904.DWG, S-4, 24X36.

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WATER HANDLING PLAN
SCALE: 1/8" = 1'-0"

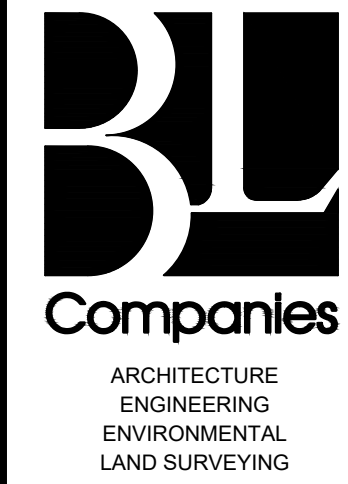
NOTES

1. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN AND NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE. THE SEQUENCE SHOWN IS A SUGGESTED CONCEPT THAT IS CONSIDERED FEASIBLE FOR PERFORMING THE WORK WHILE SATISFYING THE PERMIT REQUIREMENTS OF THIS PROJECT.
2. BEST MANAGEMENT PRACTICES (BMP) SHALL BE UTILIZED AS APPROPRIATE AND SHALL BE CONSISTENT WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
3. CONSTRUCTION ACTIVITIES SHALL CONFORM TO SECTION 1.10, ENVIRONMENTAL COMPLIANCE FROM THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 817, 2016 INCLUDING SUPPLEMENTAL SPECIFICATIONS DATED JULY, 2019, STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION.
4. DEWATER, IF NEEDED, SHALL UTILIZE BMP AS APPLICABLE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROVIDING BASE STREAM FLOWS AT ALL TIMES DURING CONSTRUCTION.
6. ON THE WEST SIDE OF THE STRUCTURE THERE IS AN EXISTING WATER MAIN. THE CONTRACTOR SHALL UTILIZE APPROPRIATE CONSTRUCTION METHODS IN ORDER TO PREVENT DAMAGE TO THE EXISTING FACILITY.

SUGGESTED SEQUENCE OF CONSTRUCTION

1. CONTACT "CALL BEFORE YOU DIG."
2. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES, AS REQUIRED.
3. INSTALL TEMPORARY COFFERDAM AND DE-WATER THE SITE AS NEEDED.
4. EXCAVATE FOR AND CONSTRUCT PROPOSED FOOTINGS.
5. CONSTRUCT ABUTMENTS AND WINGWALLS AND BACKFILL.
6. REMOVE TEMPORARY COFFERDAM AND DEWATERING DEVICES.
7. INSTALL PREFABRICATED STEEL SUPERSTRUCTURE.
8. PERFORM APPROACH WORK AND RESTORE DISTURBED AREAS.

TEMPORARY HYDRAULIC DATA NAUGATUCK RIVER	
AVERAGE DAILY FLOW	40 cfs
AVERAGE SPRING FLOW	80 cfs
2-YEAR FREQUENCY DISCHARGE	450 cfs
TEMPORARY DESIGN DISCHARGE	450 cfs
TEMPORARY DESIGN FREQUENCY	2-YEAR
TEMPORARY WSEL UPSTREAM	323.02 ft



100 Constitution Plaza, 10th Floor
Hartford, CT 06103
(860) 249-2200
(860) 249-2400 Fax



NAUGATUCK RIVER GREENWAY
PEDESTRIAN BRIDGE OVER BRANCH BROOK
THOMASTON, CONNECTICUT

REVISIONS
No. Date Desc.

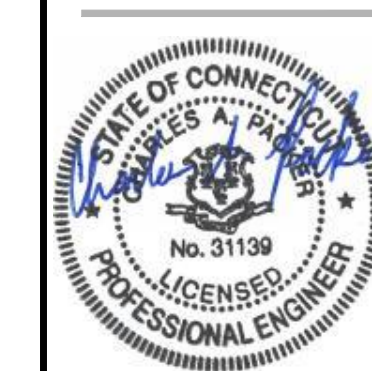
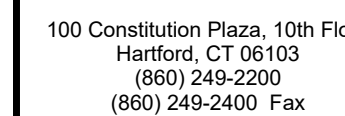
Designed
Drawn T.M.B./D.W.H.
Reviewed C.A.P.
Scale AS NOTED
Project No. 1800579
Date 12/30/2019
CAD File:
TBRG180057904

Title
CONSTRUCTION
SEQUENCE
PLAN

Sheet No.

S-4

Xref (s) : BD\4C3121 : XBRG1800579_101 : 42224.00 Thomaston : PR-422400



NAUGATUCK RIVER GREENWAY
PEDESTRIAN BRIDGE OVER BRANCH BROOK
THOMASTON, CONNECTICUT

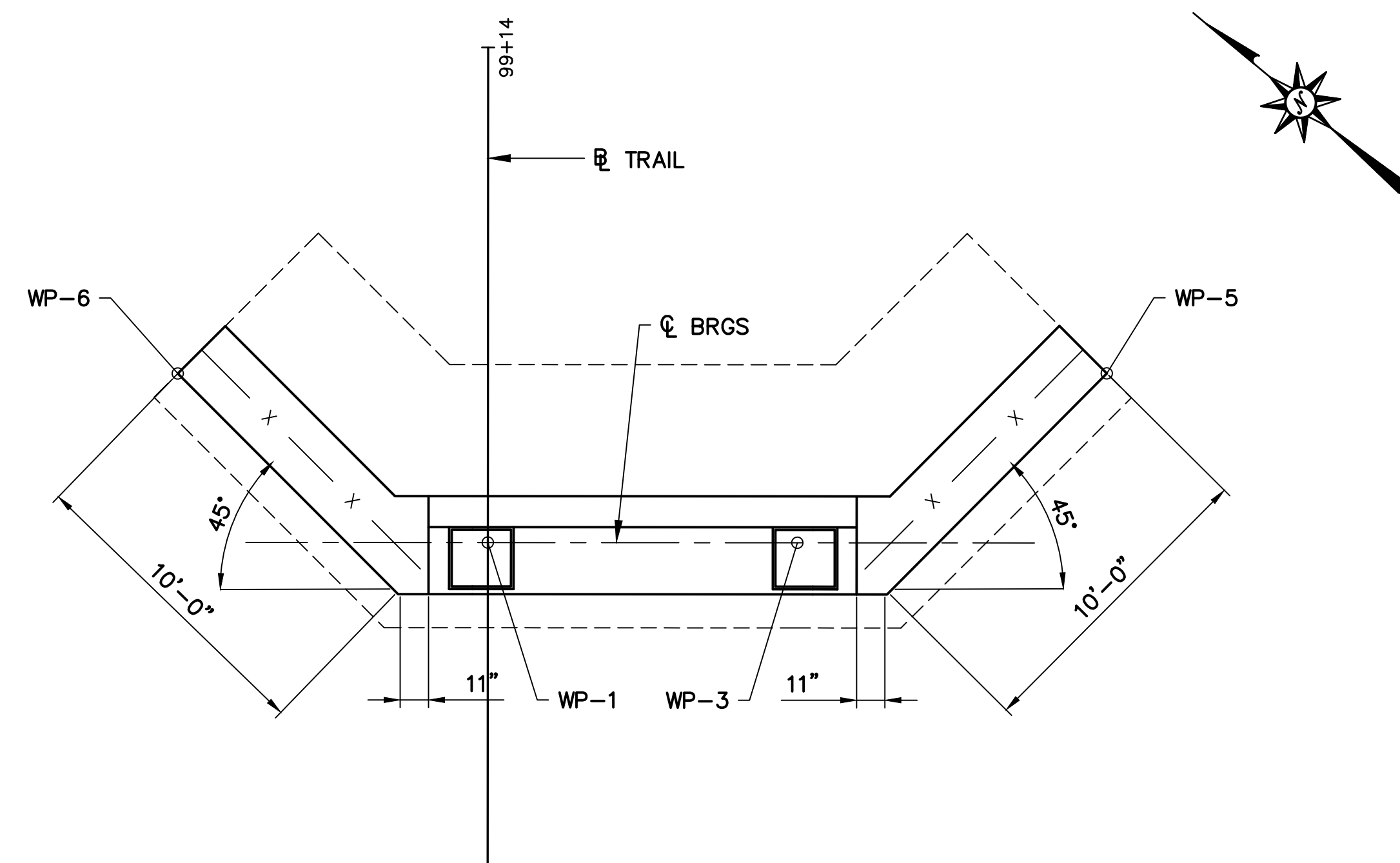
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	Date		
Designed			
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Reviewed			C.A.
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Date			12/30/2011
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Title
SUBSTRUCTURE
DETAILS - 1

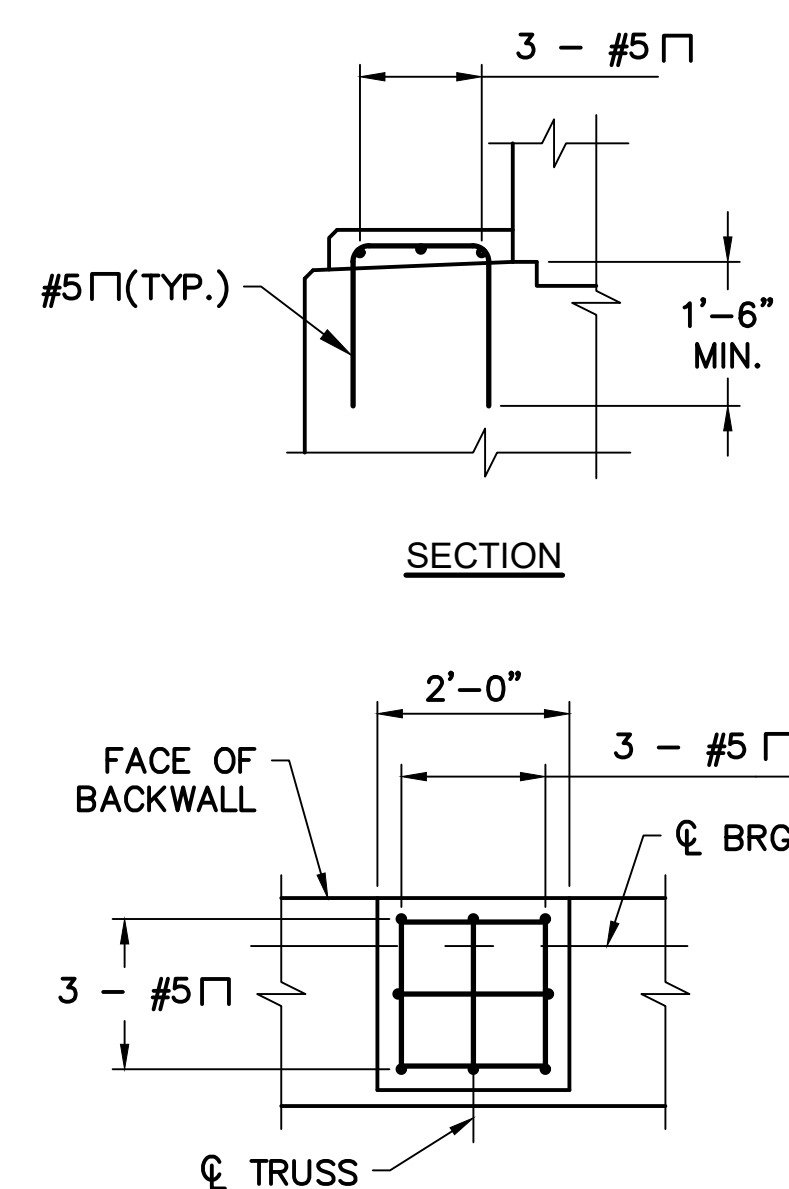
Sheet No.

S-5

1. FOR WORKING POINT COORDINATES, SEE SHEET NO. S-2.
2. FOR BORING LOGS, SEE SHEET NO. S-3.
3. PEDESTAL ELEVATIONS PROVIDED ARE BASED ON ASSUMPTIONS MADE DURING DESIGN. EXACT PEDESTAL ELEVATIONS SHALL BE DETERMINED BY CONTRACTOR AS PART OF THE SUPERSTRUCTURE AND BEARING DESIGN.
4. FOR ABUTMENT 2 DETAILS AND TYPICAL WINGWALL SECTION, SEE SHEET NO. S-6.
5. EXCAVATION INTO THE BEDROCK FOR CONSTRUCTION THE FOOTING IS TO BE PAID FOR UNDER "STRUCTURE EXCAVATION - ROCK".
6. THE ANCHOR BOLTS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE EXACT PLACEMENT SHOULD BE COORDINATED WITH THE FABRICATOR AND IS INCLUDED IN THE COST OF "PEDESTRIAN BRIDGE SUPERSTRUCTURE".



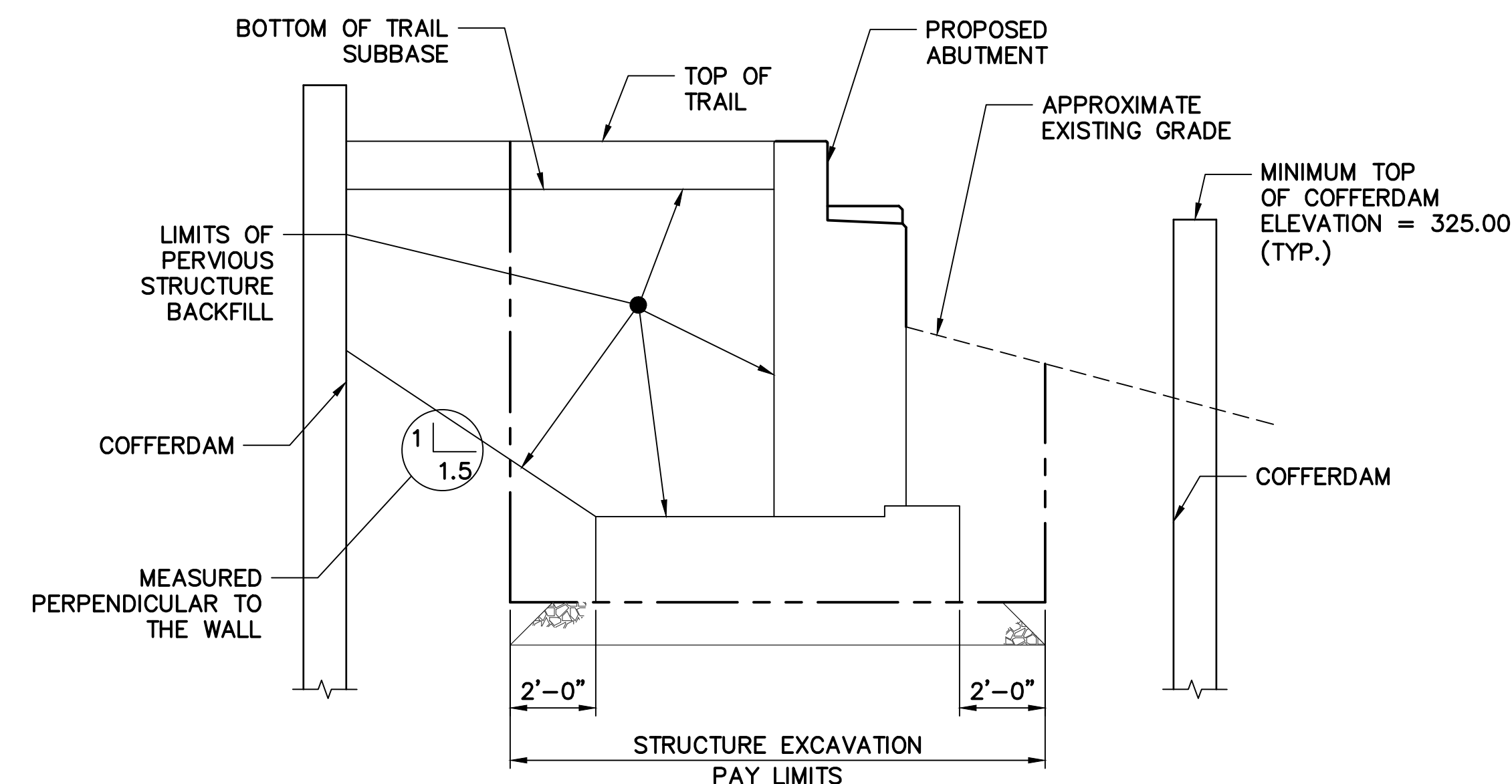
ABUTMENT 1 PLAN
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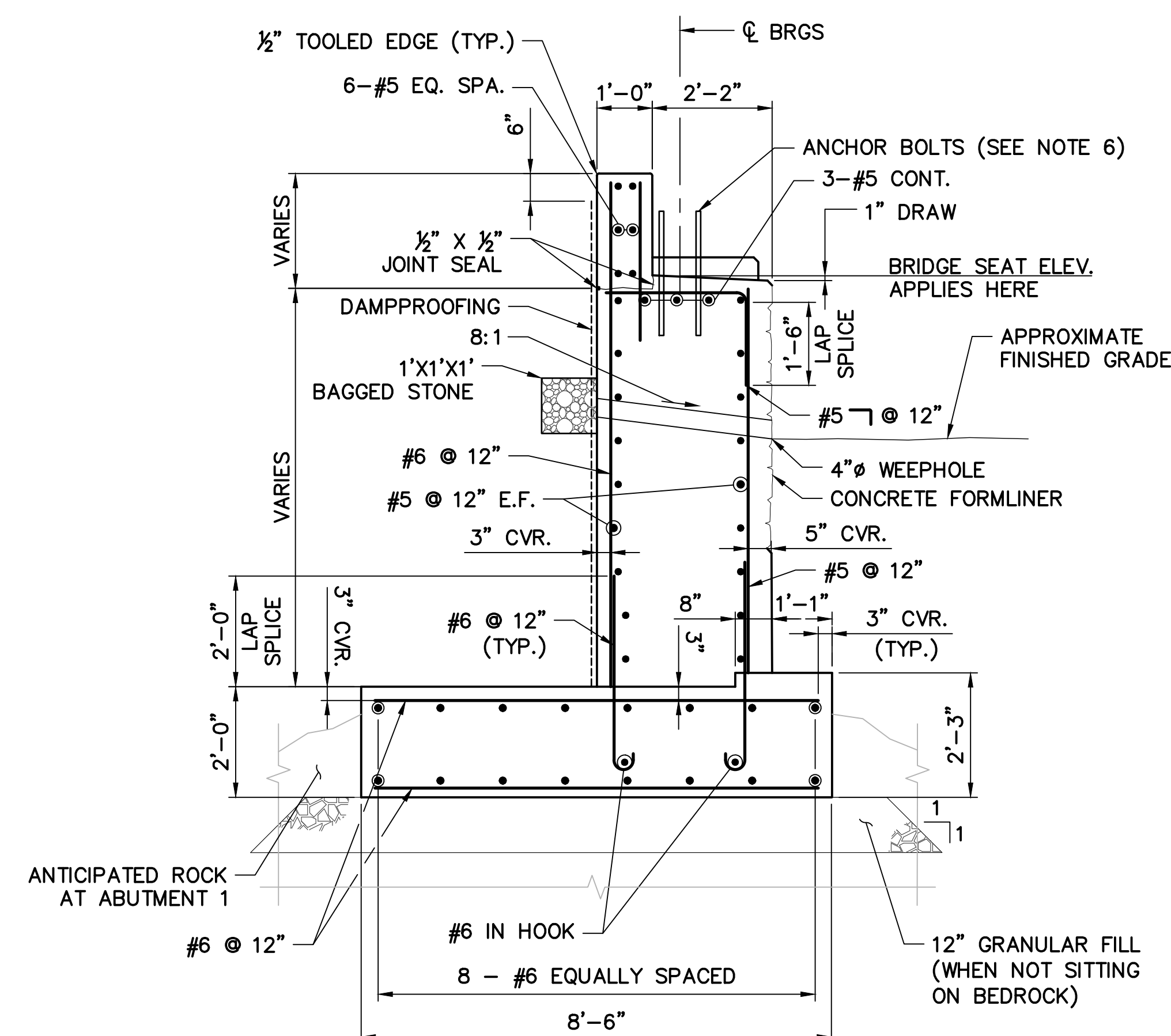
PLAN

PEDESTAL DETAIL

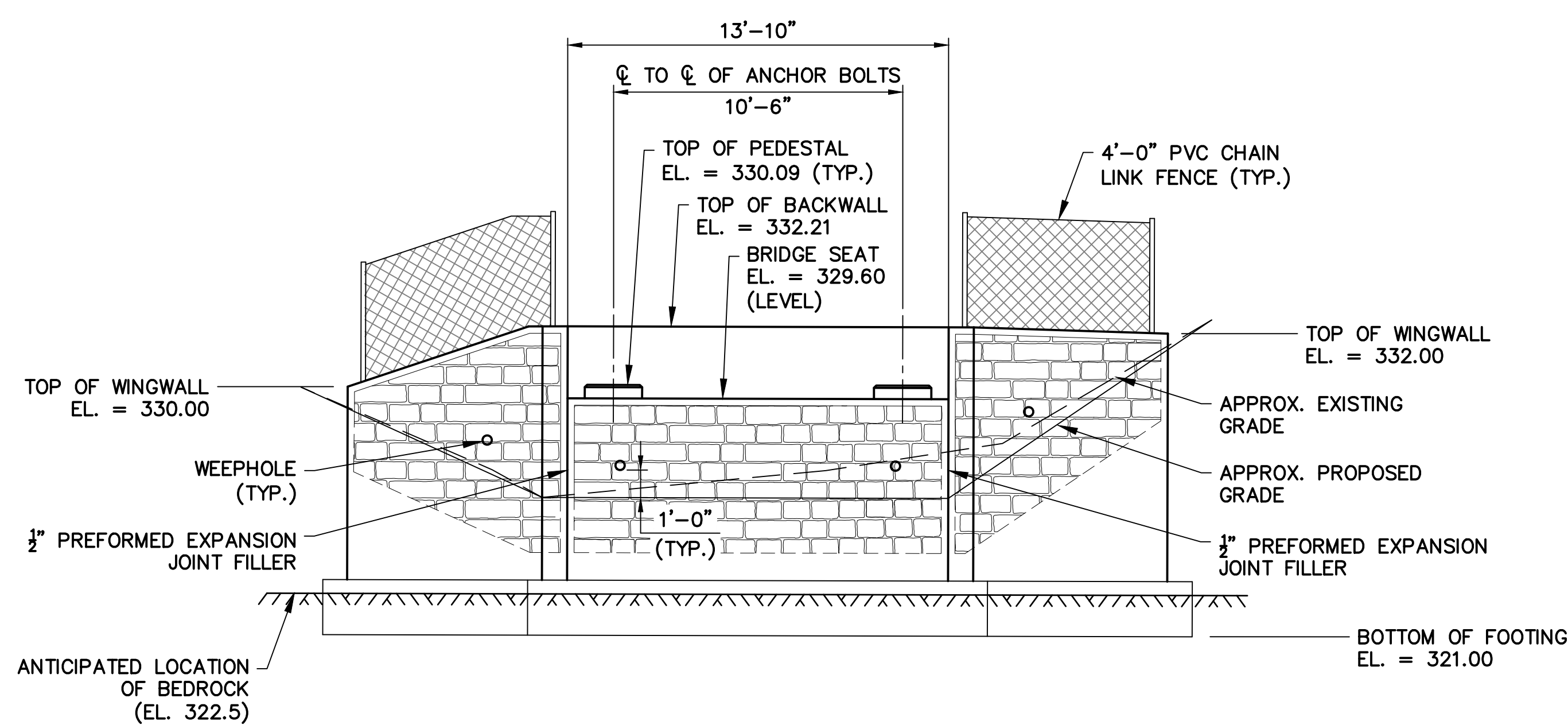
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TYPICAL ABUTMENT PAYLIMITS
SCALE: N.T.S.



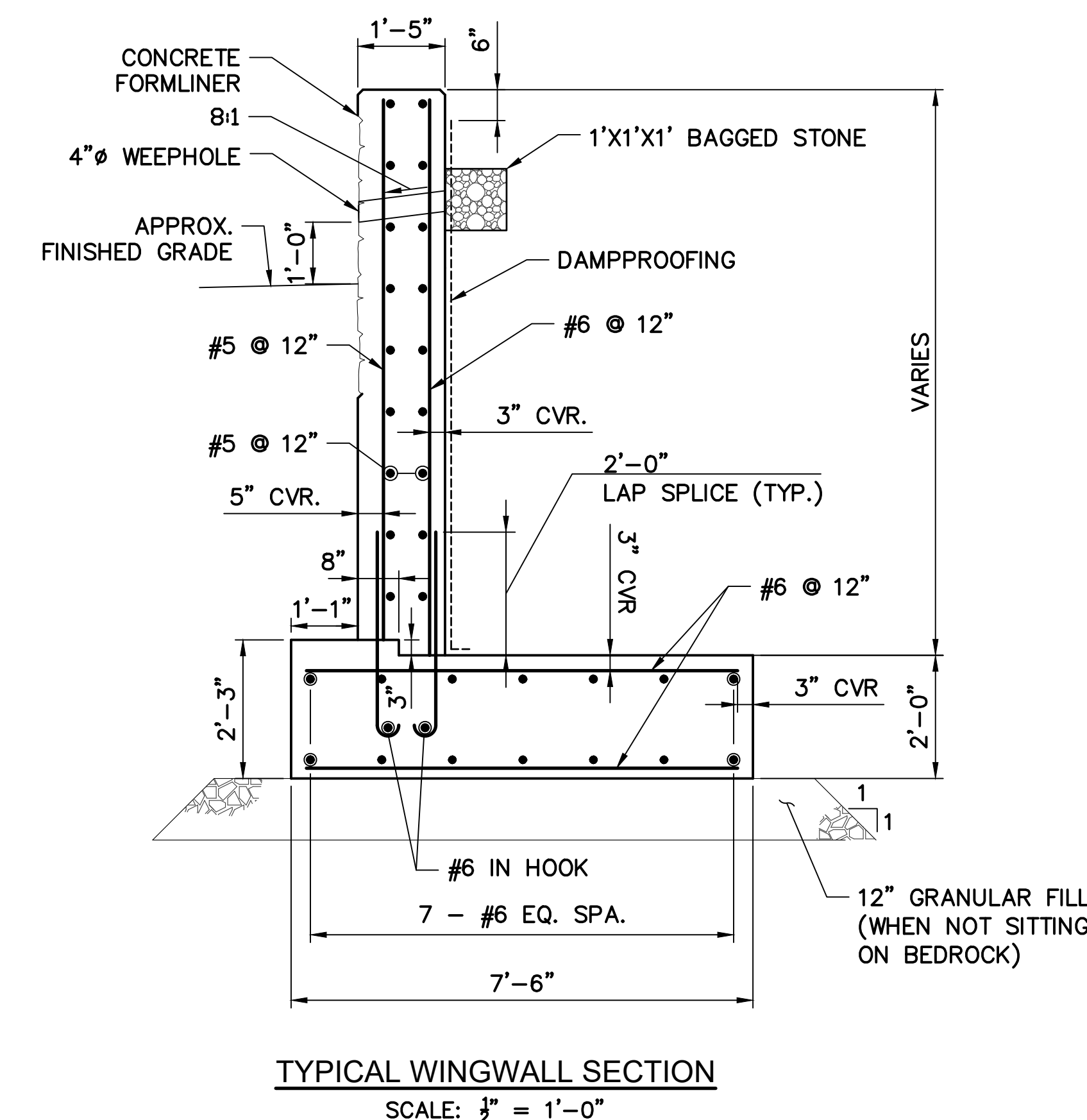
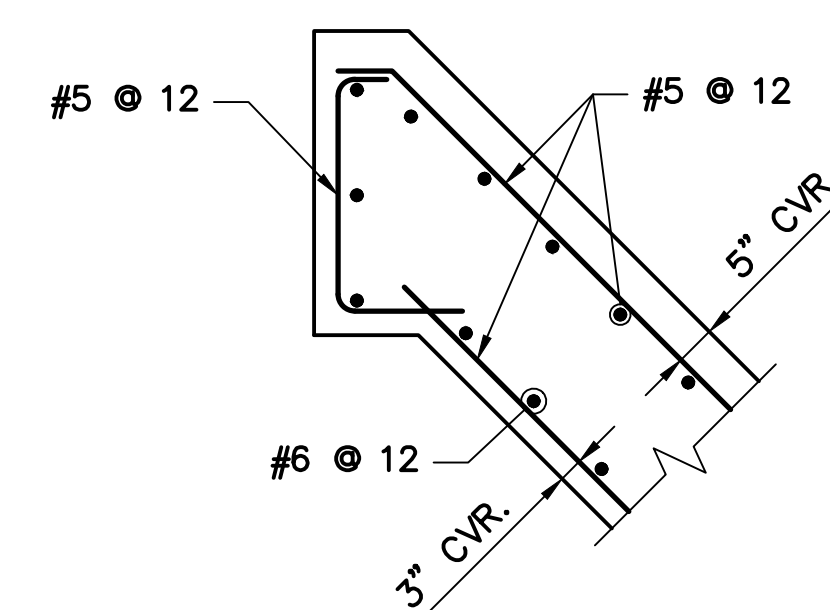
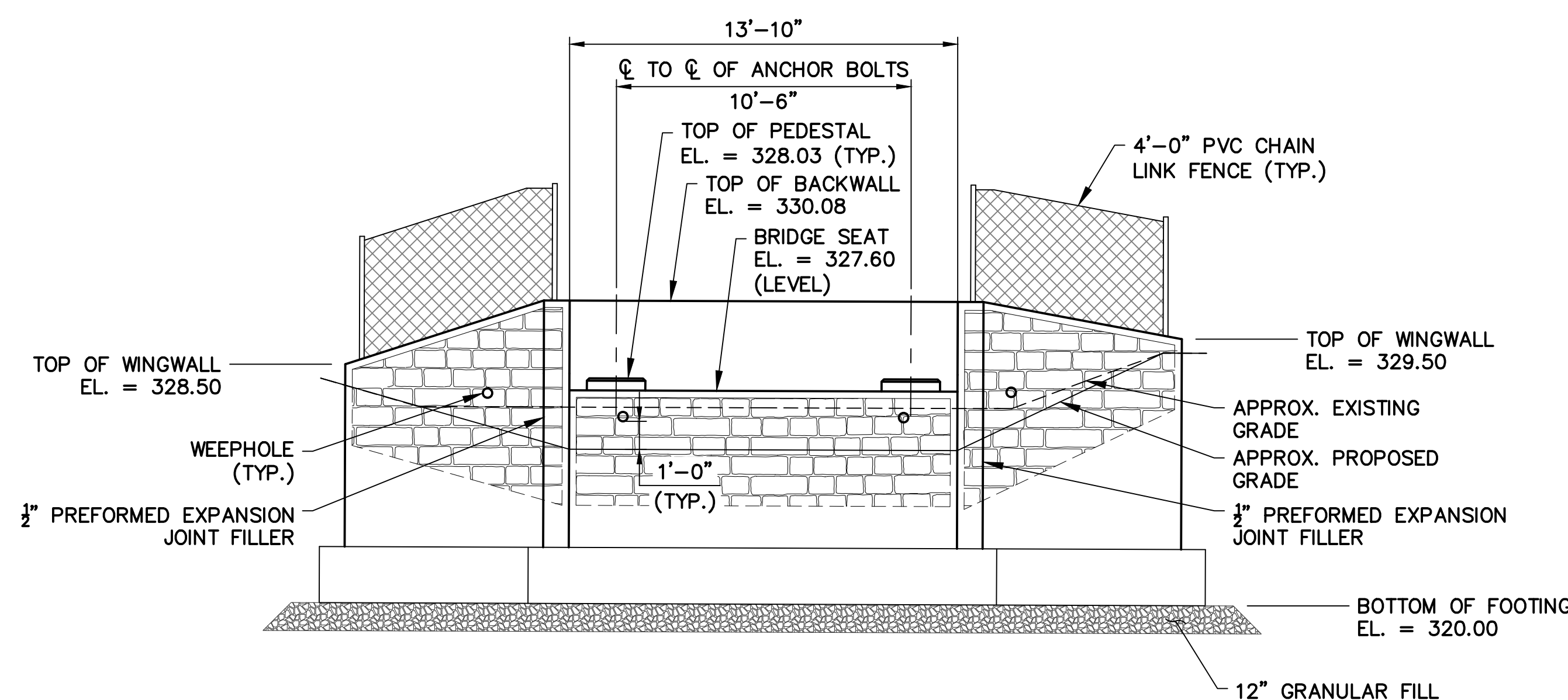
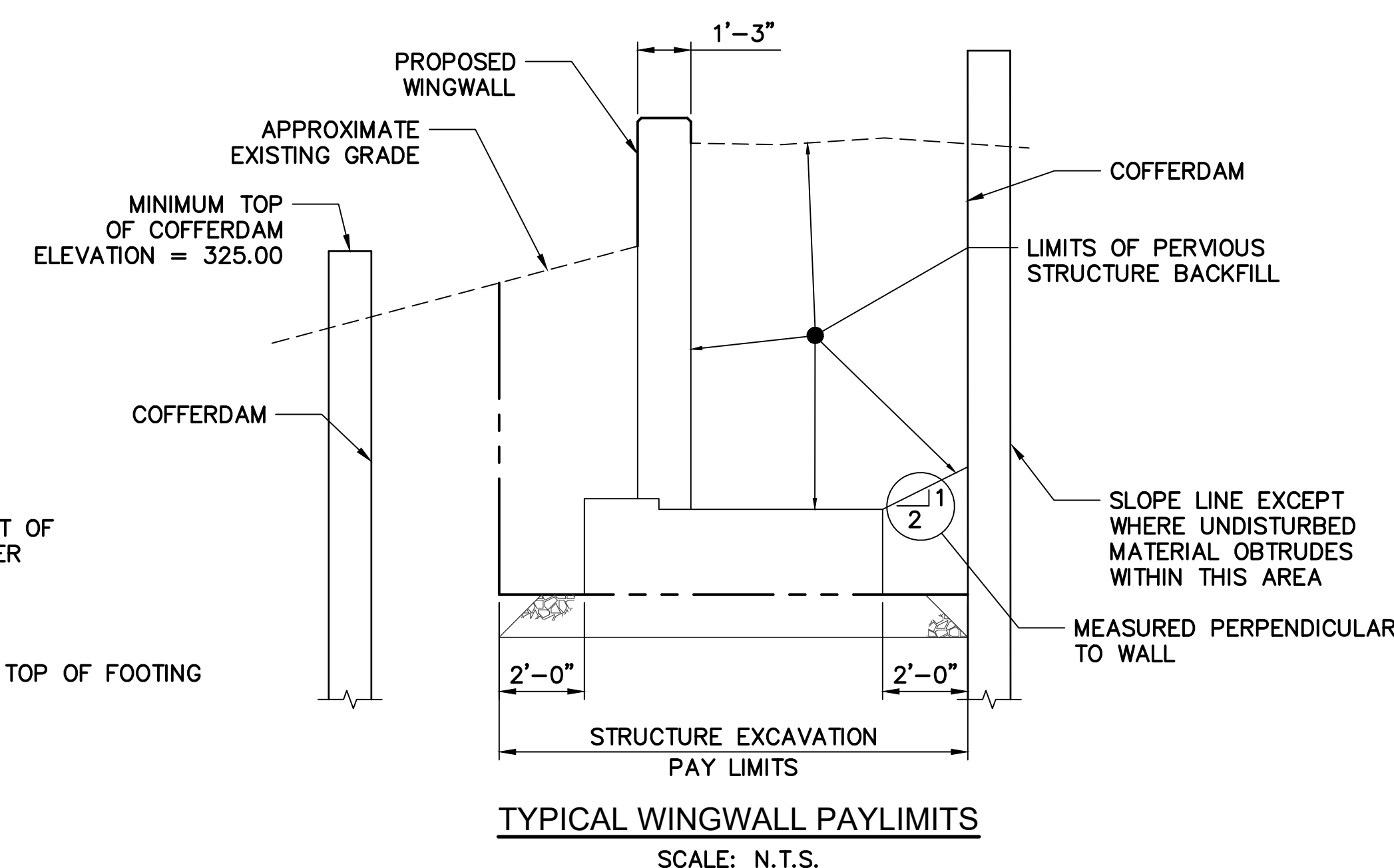
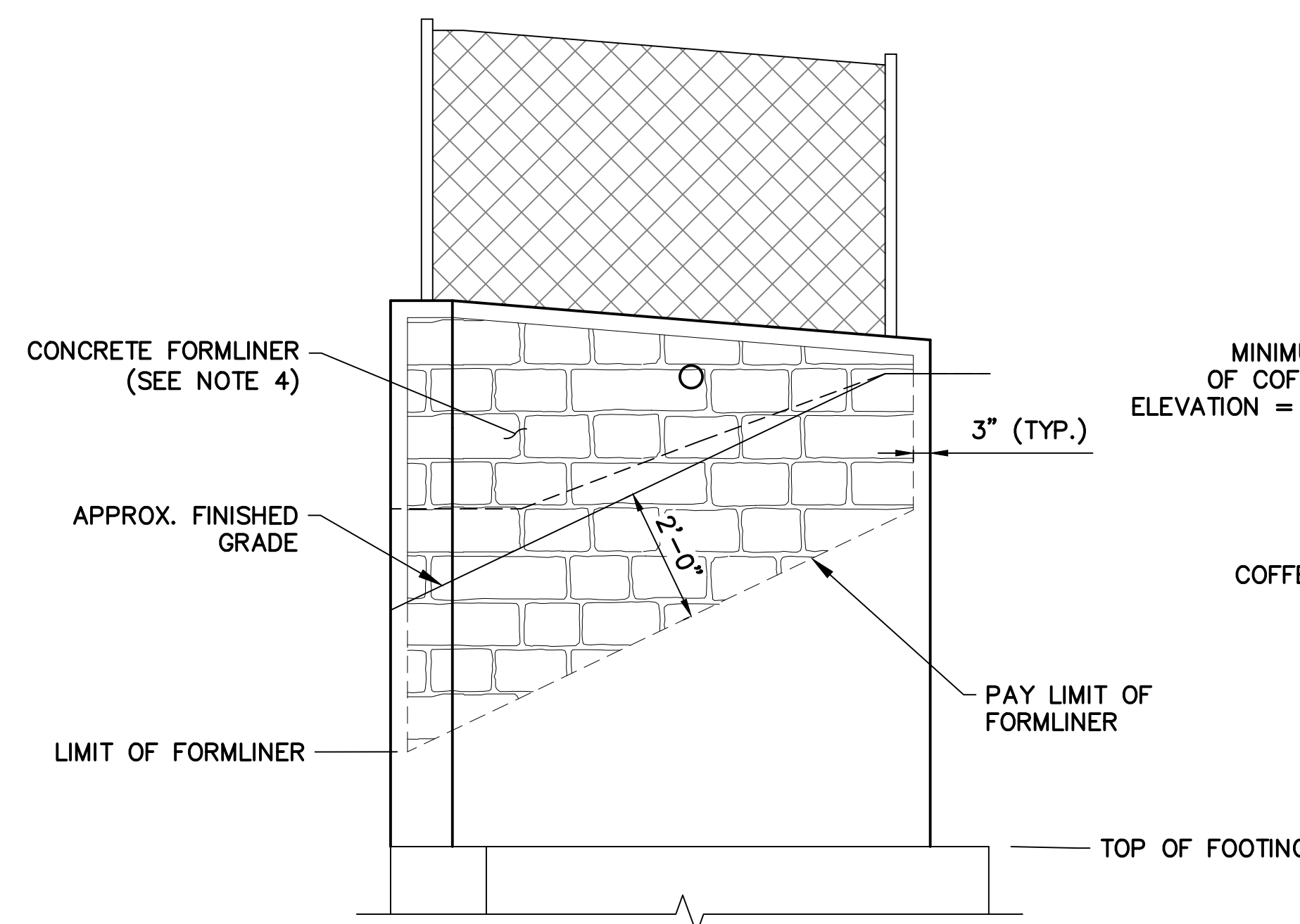
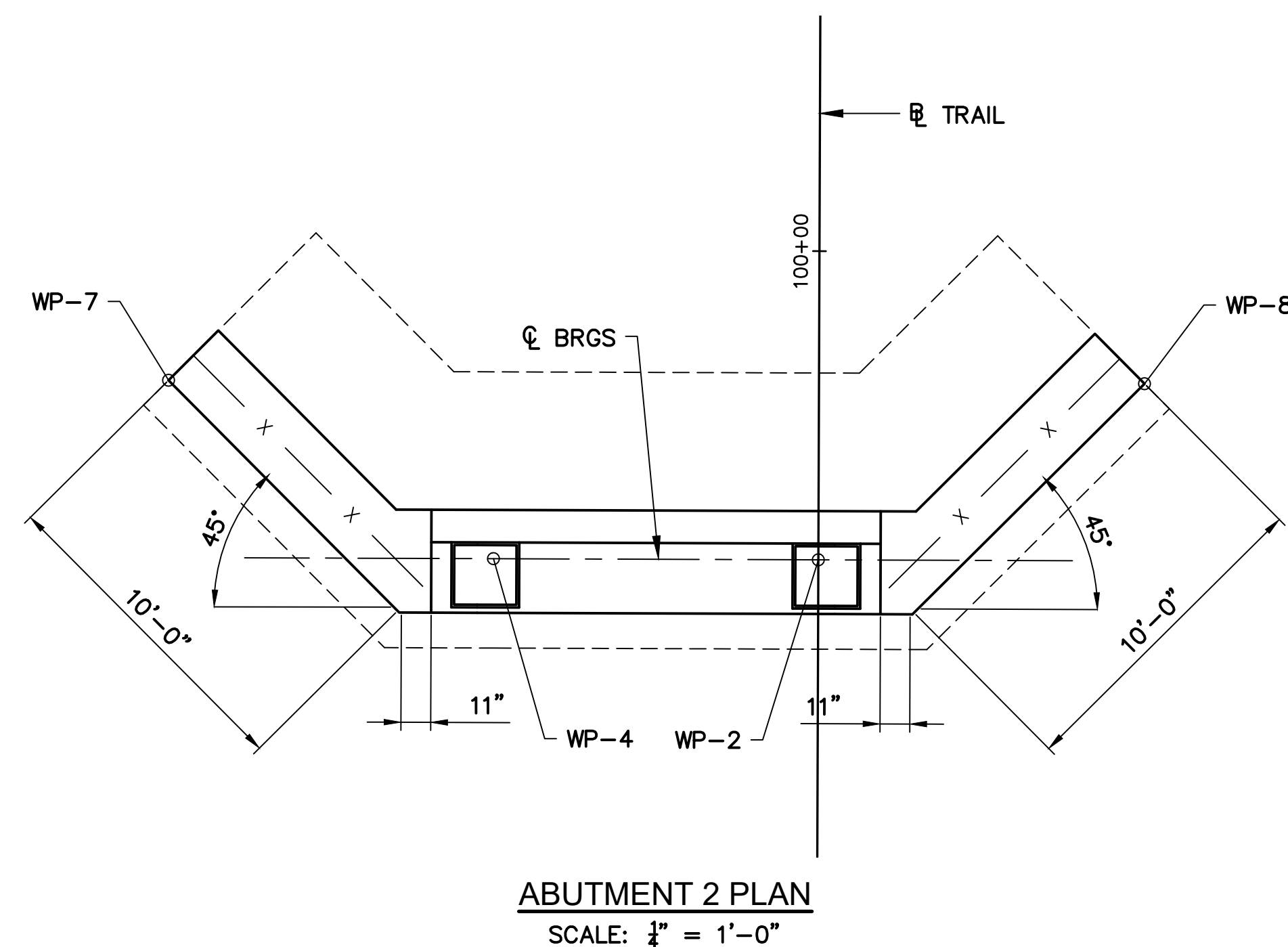
TYPICAL ABUTMENT SECTION
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ABUTMENT 1 ELEVATION
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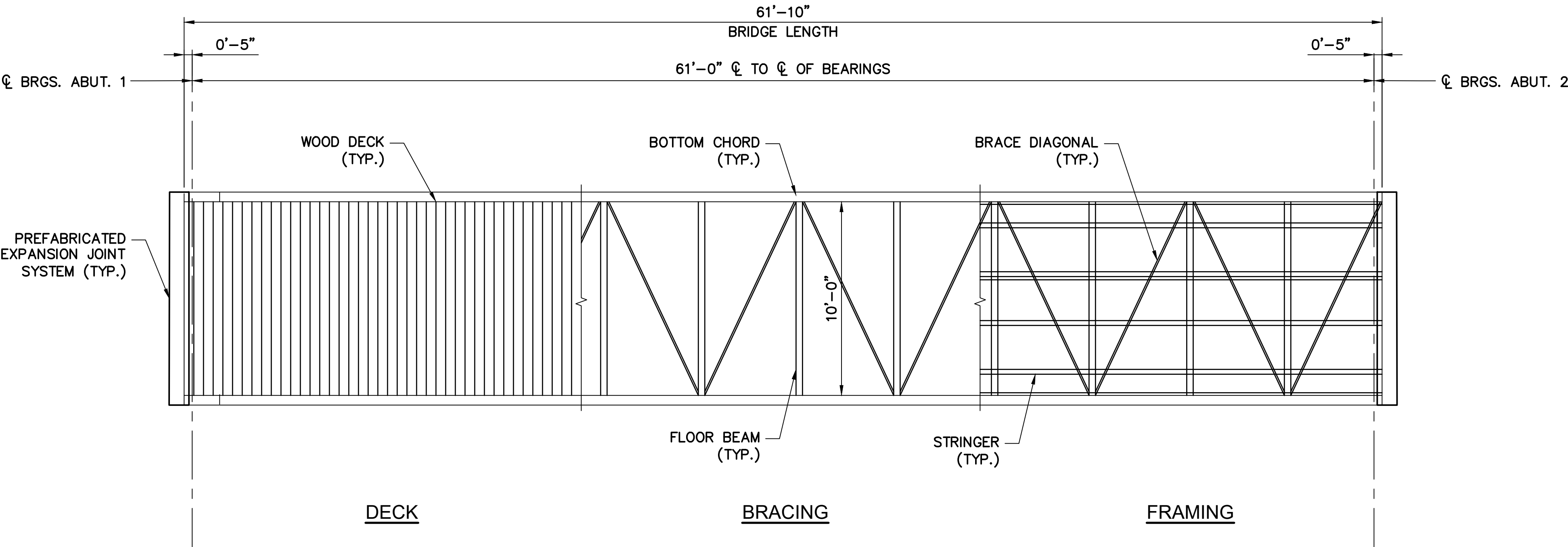
NOTES

- FOR WORKING POINT COORDINATES, SEE SHEET NO. S-2.
- FOR BORING LOGS, SEE SHEET NO. S-3.
- FOR ABUTMENT 1 DETAILS AND TYPICAL ABUTMENT SECTION, SEE SHEET NO. S-5.
- WORK ASSOCIATED WITH THE CONCRETE FORMLINER IS TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "CONCRETE FORMLINERS". DESIGN AND PATTERN OF CONCRETE FORMLINER SURFACES SHALL CONFORM TO THE SPECIAL PROVISIONS.

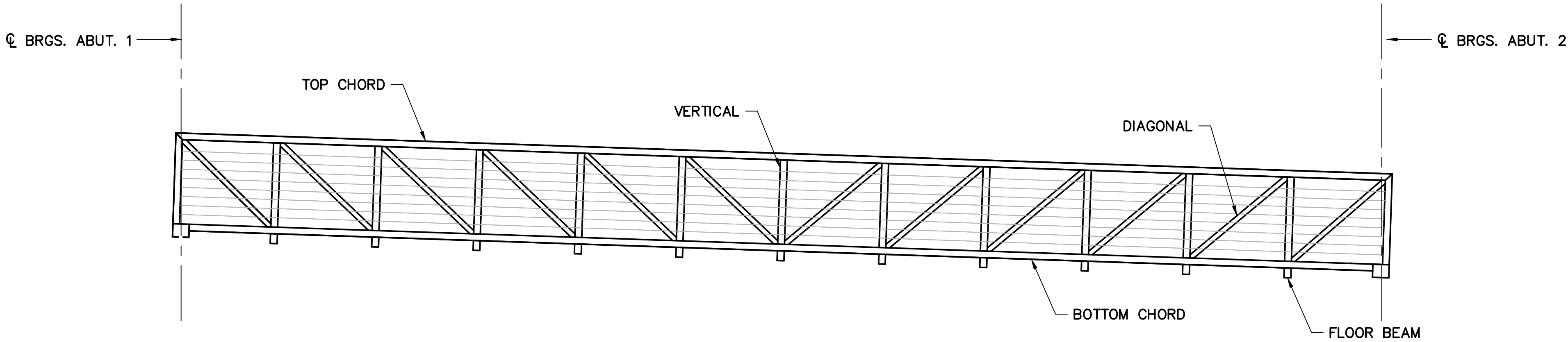


PREFABRICATED PEDESTRIAN BRIDGE NOTES:

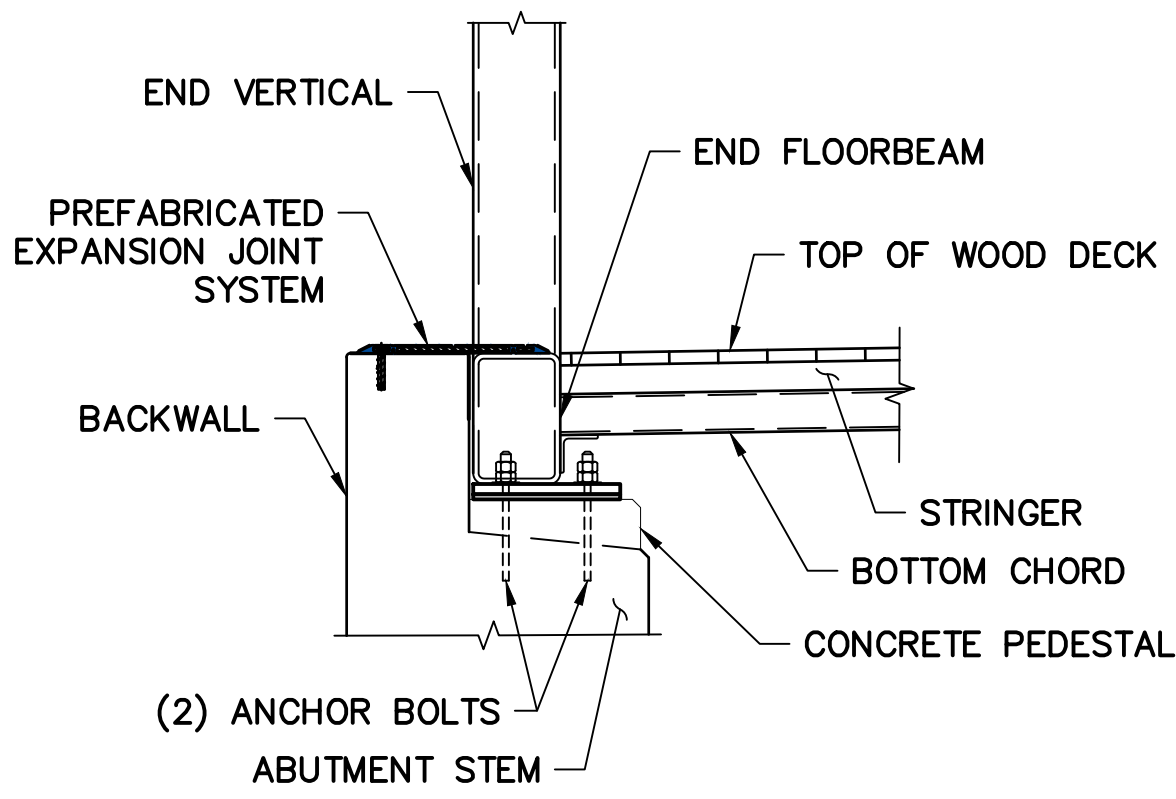
1. BRIDGE MEMBERS SHALL BE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ENHANCED ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606, OR ASTM A242 PLATE AND STRUCTURAL SHAPES (Fy=50,000 PSI).
2. TIMBER DECKING SHALL CONSIST OF IPE-TYPE HARDWOOD DECKING.
3. PLAIN AND LAMINATED ELASTOMERIC BEARINGS SHALL CONFORM TO AASHTO M251. ELASTOMER SHALL BE GRADE 3 VIRGIN NEOPRENE WITH SHORE 'A' DUROMETER HARDNESS = 66. WHERE STEEL REINFORCEMENT IS REQUIRED, STEEL LAMINAE SHALL CONFORM TO ASTM A560 OR ASTM A611, GRADE C OR D.
4. ALL BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A325 (OR ASTM A490), TYPE 3, EXCEPT AS NOTED OTHERWISE. ALL NUTS SHALL MEET THE REQUIREMENTS OF ASTM A635 AND ALL WASHERS SHALL MEET THE REQUIREMENTS OF ASTM F436.
5. WELDING DETAILS, PROCEDURES, AND TESTING METHODS SHALL CONFORM TO THE ANSI/AASHTO/AWS D1.5: 2002 – BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
6. FIELD SPICES WILL NOT BE ALLOWED EXCEPT WITH THE WRITTEN PERMISSION OF THE ENGINEER PRIOR TO SUBMISSION OF SHOP DRAWINGS. IF ALLOWED, THESE SPICES SHALL BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE COST OF THESE SPICES, INCLUDING THE COST OF DESIGN, SHALL BE AT NO EXTRA EXPENSE TO THE OWNER.
7. PROVIDE NET CAMBER OF 1/2" AFTER APPLICATION OF FULL DEAD LOAD.
8. LENGTH DIMENSIONS SHOWN ARE HORIZONTAL.
9. THE STRUCTURAL STEEL BRIDGE FABRICATOR AND MANUFACTURER SHALL BE CERTIFIED UNDER THE AISC QUALITY CONTROL PROGRAM AS CATEGORY MBF – MAJOR STEEL BRIDGES.
10. THE STRUCTURAL STEEL BRIDGE FABRICATOR AND MANUFACTURER SHALL IMPLEMENT A FRACTURE CONTROL PLAN (FCP) AND NONDESTRUCTIVE TESTING (NDT) FOR FRACTURE CRITICAL MEMBERS (FCM) AS OUTLINED IN THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
11. THE BRIDGE DETAILS SHOWN ON THIS SHEET AND THE CORRESPONDING ABUTMENT PEDESTAL ELEVATIONS ARE BASED ON THE CONTINENTAL STEEL TRUSS MANUFACTURED BY CONTECH BRIDGE SOLUTIONS OF WEST CHESTER, OH. IF THE CONTRACTOR SELECTS ANOTHER BRIDGE MANUFACTURER, OR IF BRIDGE DIMENSIONS SHOWN ON THIS SHEET DIFFER FROM THAT OF THE ACTUAL DIMENSIONS OF THE MANUFACTURED BRIDGE, AFFECTED DETAILS AND ELEVATIONS SHALL BE ADJUSTED ACCORDINGLY TO ACCOMMODATE THE MANUFACTURED BRIDGE.
12. SHOULD THE CONTRACTOR CHOOSE TO SELECT ANOTHER MANUFACTURER, THE CONTRACTOR'S ALTERNATIVE TRUSS BRIDGE SHALL EMULATE THE AESTHETIC FEATURES SHOWN ON THIS SHEET AND SHALL PROVIDE THE REQUIRED SAFETY FEATURES (BRIDGE RAILS) AND MATERIAL REQUIREMENT (WEATHERING STEEL AND TIMBER DECKING) OF THE PROPOSED BRIDGE.
13. THE PREFABRICATED EXPANSION JOINT SYSTEM SHOWN ON THIS SHEET IS BASED ON THE WABO SAFETYFLEX JOINT SYSTEM MANUFACTURED BY WATSON BOWMAN ACME OF AMHERST, NY. IF THE CONTRACTOR SELECTS ANOTHER JOINT MANUFACTURER, AFFECTED DETAILS SHALL BE ADJUSTED ACCORDINGLY TO ACCOMMODATE THE MANUFACTURED JOINT.



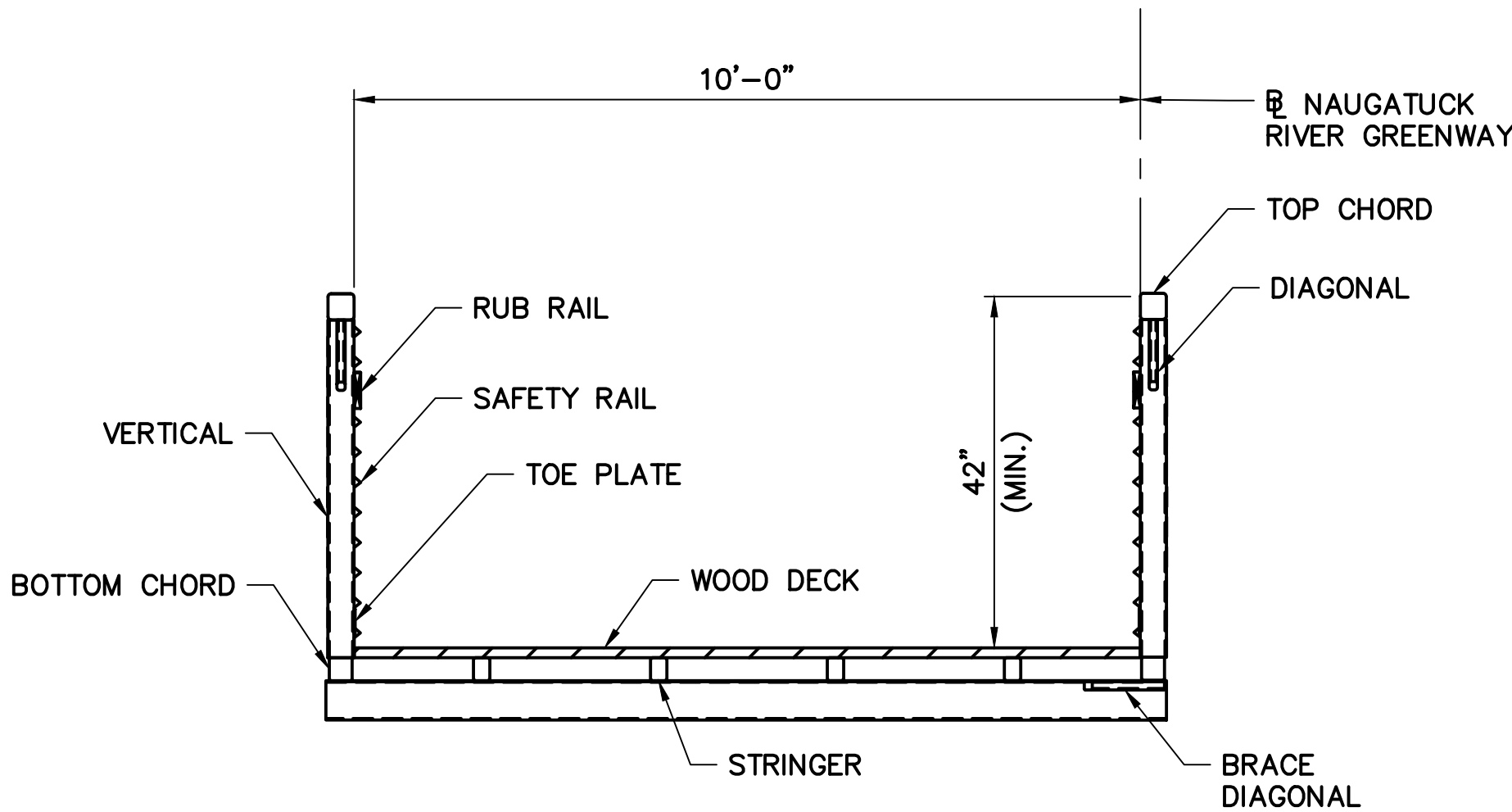
PLAN
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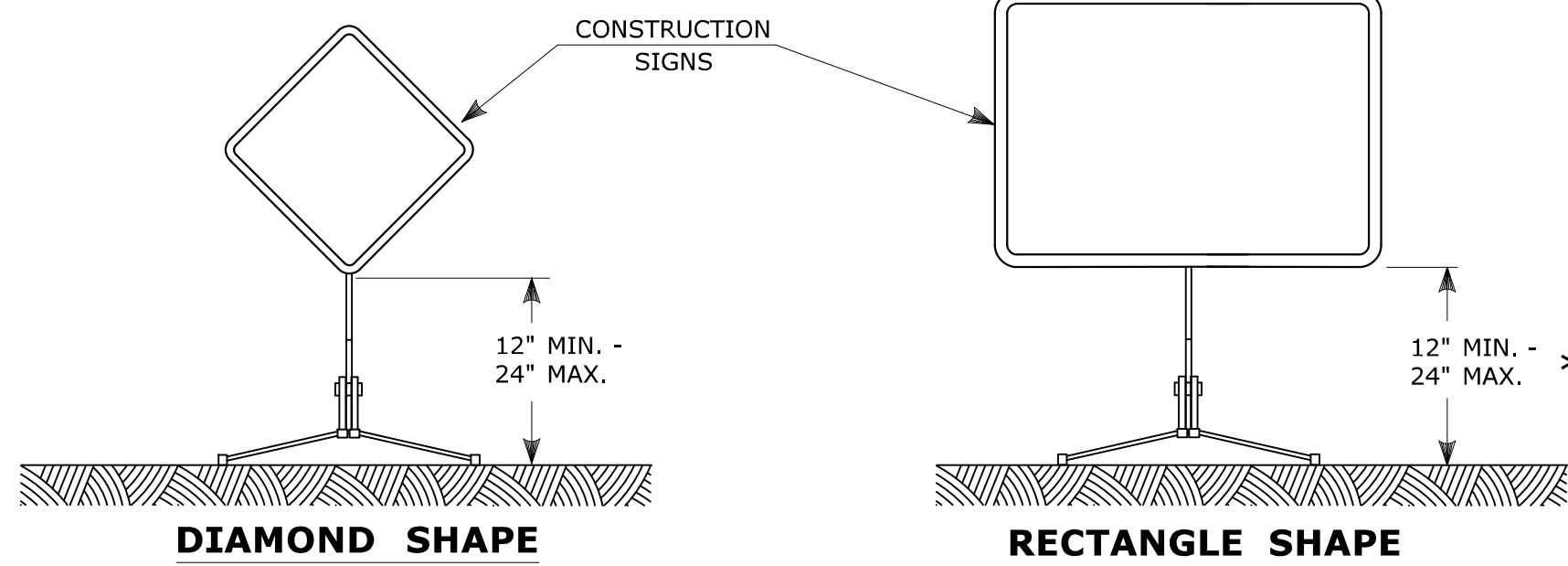
ELEVATION
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BEARING SIDE VIEW
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SECTION
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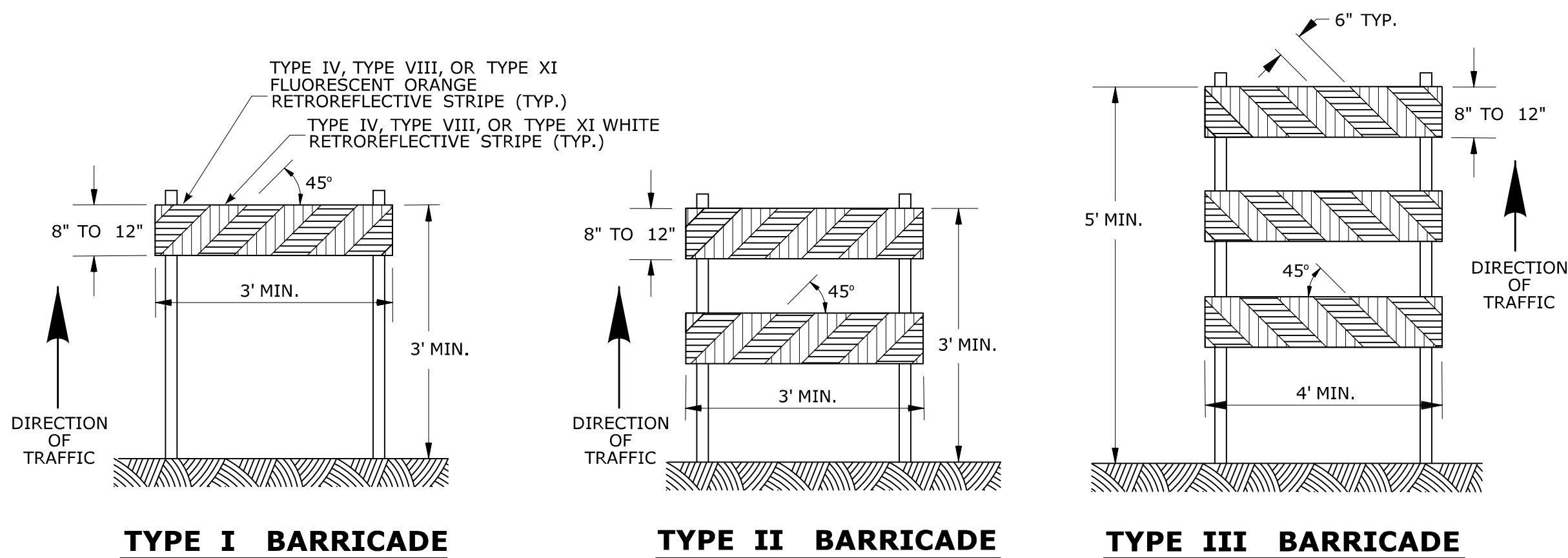


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

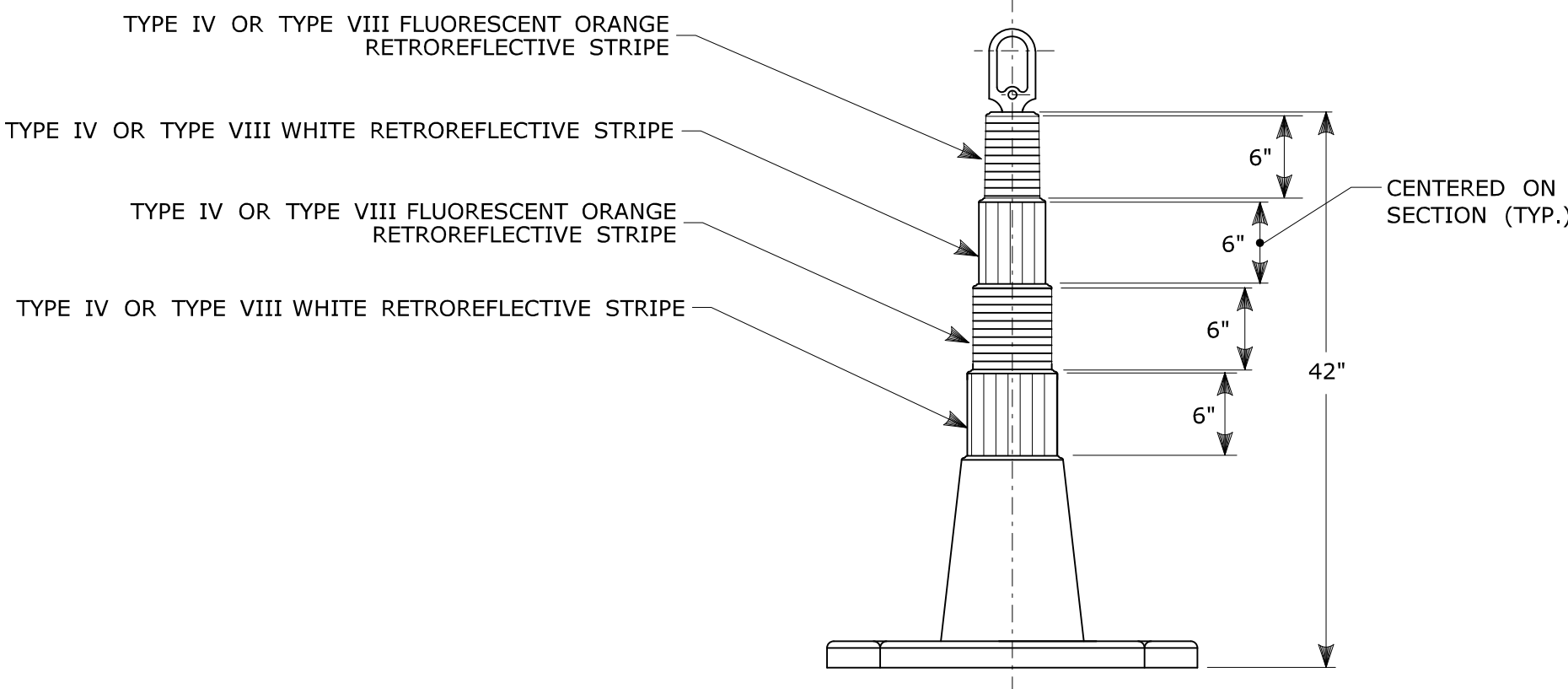
★ FOR E5-1 (EXIT SIGNS) USE MIN 48".



CONSTRUCTION BARRICADES

NOTES:

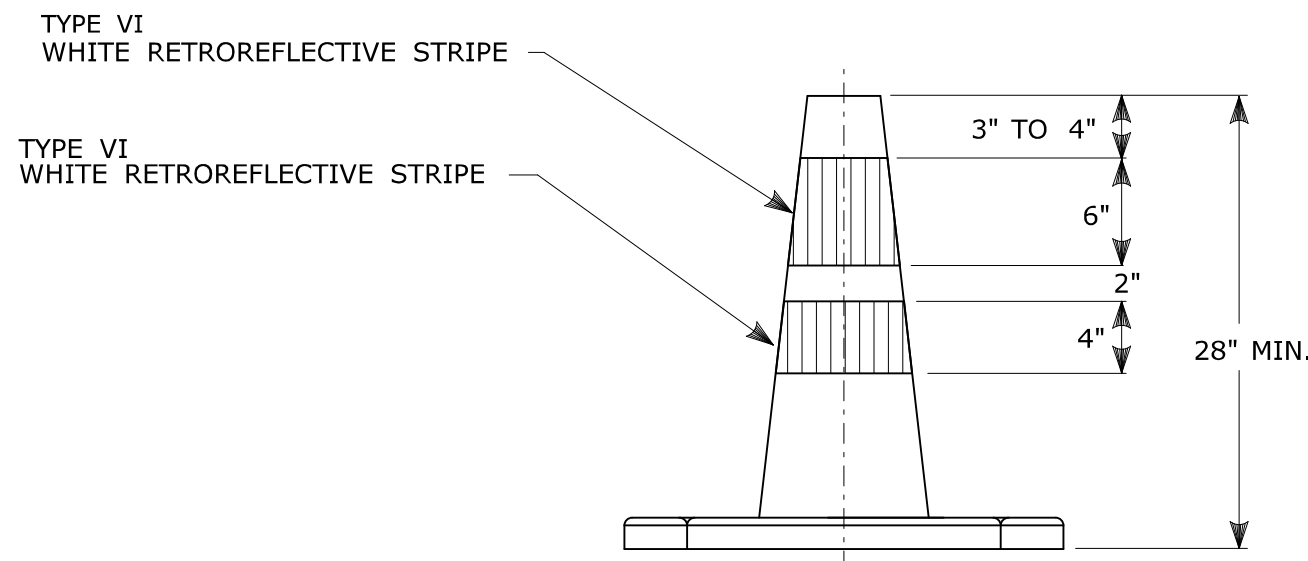
- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



42" TRAFFIC CONE

NOTES:

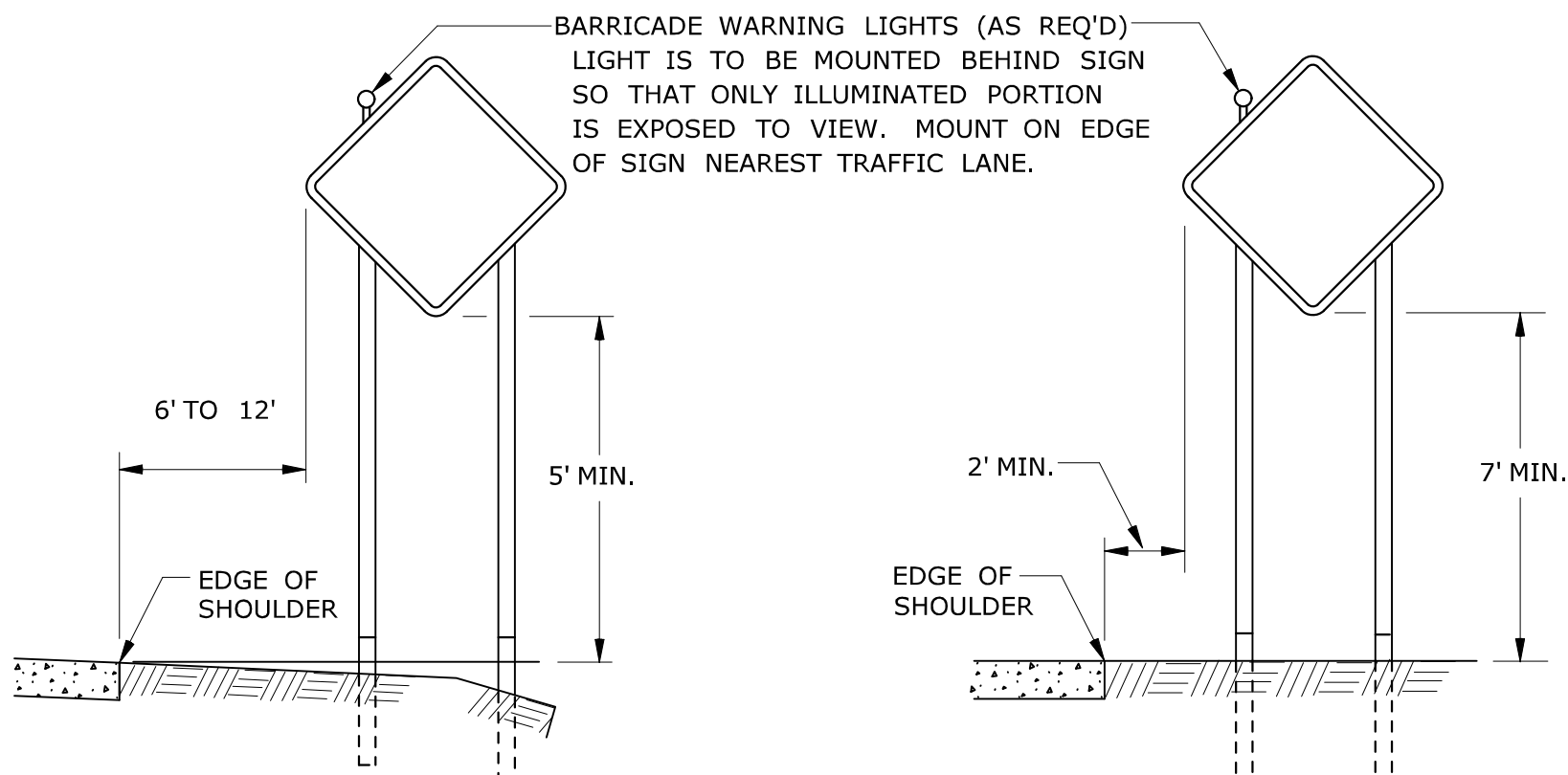
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

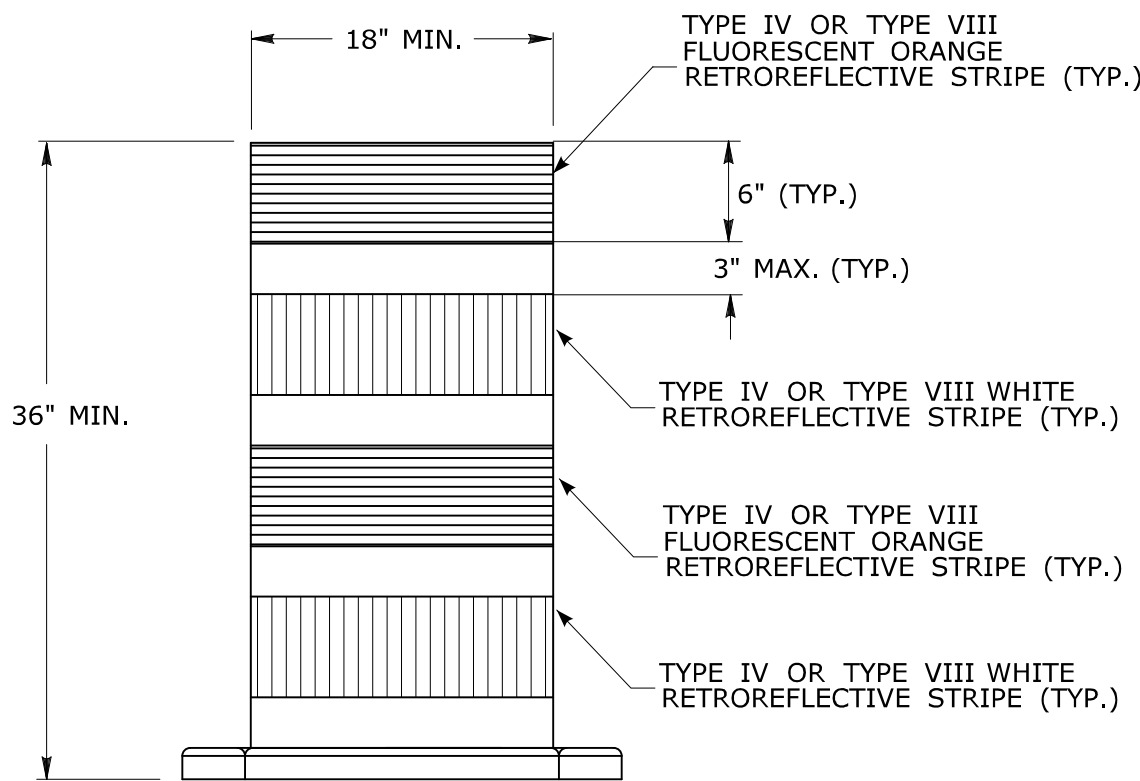
NOTES:

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



RURAL AREA


URBAN AREA



TRAFFIC DRUM FRONT VIEW

NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE		<div><div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div><div>Filename: TR-1220_02_3 2018.dgn Model: TR-1220_02</div></div>		<div><div>SUBMITTED BY: <i>Mark Makuch</i></div><div>NAME/DATE/TIME: Mark F. Makuch, P.E. 2018.08.17 09:12:43-04'00'</div></div> <div><div>APPROVED BY: <i>[Signature]</i></div><div>NAME/DATE/TIME: Mark F. Carlino, P.E. 2018.08.21 07:49:51-04'00'</div></div>		<div>CTDOT STANDARD SHEET</div> <div>OFFICE OF ENGINEERING</div>		STANDARD SHEET TITLE: <div>CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES</div>		STANDARD SHEET NO.: TR-1220_02	
3	8-2018	UPDATED SHEETING TYPE AND COLOR.														
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.														
1	2-2011	MINOR REVISIONS.														
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/10/2018													